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Our cold house of July 30 shading; photoed Oct. 10th. Details, page 3.

There are a number of important factors involved in growing a uniformly good crop of mums at a profit. With exactly 50 years experience growing mums we have attempted to discuss this subject on forward pages. Our suggestions might or might not fit your conditions, but you will be interested in looking them over. To continue supplying you with rooted cuttings, we realize that the business must be profitable to you. We'll do all we can to make it so. Let us hear from you.

Better Mums for 1941



NOTE-PLEASE

While our equipment and stock for supplying mum cuttings is improved annually as it should be, we strongly urge the importance of PLACING ORDERS EARLY. While we watch the behavior of varieties, especially the newer ones, and the market demands in all parts of the country, it is impossible to accurately anticipate varieties that will be most wanted.

This results in unexpected demands and shortages of some varieties. For this reason, get your mum list in early as you can, bearing in mind that all orders are filled in the rotation received. We will not make exceptions to this rule.

We insist on thoro State inspection of all our propagating stock, especially for midge. This enables us to guarantee all stock furnished by us to be clean, free of disease or insects, well rooted, and carefully packed.

GEO. J. BALL, Inc.

INSTRUCTIONS FOR ORDERING

NOTE: When arrangements are made to ship cuttings on open account, it is understood they are sold on strictly 60 days net basis. The close margin under which these cuttings are sold, makes these terms necessary.

SPECIAL EARLY ORDER DISCOUNT. When an order is placed two months, or more, in advance of delivery date, a discount of 5% is allowed, **provided delivery date is April 1st, or later.** Be sure to show on your order, date cuttings are to be shipped.

Special Discounts for Large Orders: The following discounts, for quantities given, will apply on orders placed at one time for the quantity on which discount is taken. 5% discount for an order of 10,000 $7 \frac{1}{2}\%$ discount for an order of 50,000 10% discount for an order of 50,000

	Rate per 100	Rate per 10	Rate per 100	Rate per 10
Please note schedule at right show-	\$ 3.00	\$.50	\$ 7.00	\$1.25
ing rates per 100 and correspond-	4.00	.50	8.00	1.50
ing rates per 10. We do not supply	5.00	1.00	10.00	1.50
less than 10 of any variety, except	6.00	1.00	12.00	2.00
first year Novelties.			15.00	2.50

VERY IMPORTANT In order to produce cuttings at present prices, the business is run on a very close margin. For this reason we cannot break bundles of 25 cuttings as it adds considerable to the cost.

Please note, therefore, following rule will apply on all orders:

When less than 25 of a variety is ordered they will be billed at the ten rate, as per table shown above.

If order totals less than 1000, 25 of a variety will be billed at the 100 rate.

When more than 25 of a variety is ordered quantity MUST BE IN MULTIPLES OF 25, (meaning 50, 75, or 100).

250 of one variety will be billed at the 1000 rate.

PLEASE NOTE If your order should total 900 cuttings (for example: 100 each of 9 varieties at \$3.00, total is \$27.00) while if 1000 are ordered, the thousand rate would apply. This point should be watched in figuring your order so that you may have advantage of the thousand rate on the entire order. WATCH THIS.

If order is wanted C.O.D. be sure to enclose check for at least 50% of the amount.

SHIPPING INFORMATION
All our stock is propagated at Barberton, Ohio, from where it is shipped by Express COLLECT.

If cuttings are wanted by Parcel Post, add sufficient postage as all prices are figured F.O.B. Barberton, Ohio. Approximate weights of cuttings are as follows: 50 cuttings, 2 lbs.; 100, 4 lbs.; 500, 15 lbs.; 1000, 24 lbs. You can secure the amount of postage necessary from your local Post Office.

TO OUR CANADIAN CUSTOMERS

Be sure to get a permit from your Department of Agriculture at Ottawa. As all shipments go by Express, you are to forward us the PERMIT NUMBER ONLY, holding the permit itself which is necessary to clear the shipment from customs on arrival. In case of Parcel Post shipments, apply for a Parcel Post Permit, and send the label to us with your order.

MONEY IN MUMS

THAT FRONT COVER is of a Flexo-glass covered house we started shading July 30, photoed October 7. Apricot Queen (light bronze) two to a plant in the foreground, Albatross on right. Also don't overlook our secretary "Helen" and the widely known "Charley" Newbold, our plant sales manager.

When properly managed there is a margin of profit in this crop. Our cost accounting clearly shows this. But if such details as timely planting, spacing, soil, midge, and varieties are not properly attended to, the profit margin can quickly disappear—might even turn into a substantial loss. To make a profit they must not be treated as a catch crop. When a lot turns out to be a loss, as does happen with us at times, the reason can usually be traced back to a preventable cause,—late planting, weak or diseased spots in the

bed, or midge. When we have to fight this pest all summer we don't sometimes realize the cost in time and material that it is piling up against the crop. The use of improved varieties does frequently make the difference between profit and loss. If you are skeptical on this, just remember that real improvements are coming out annually and that live growers are watching for them: and that on an open market the variety that is just a little better sells first: any experienced shipper knows what that can mean to returns. True, a new variety might occasionally be gotten that doesn't click as well with us as with the originator; but it is our experience that many failures with new ones is due to inferior culture.

Another cost item that might easily be overlooked, without a cost finding system, is that of young stock. It is a fact that many large growers who figure costs and the advantages of having their cuttings delivered the day planned for them are ordering their mum cuttings thru this catalog. When mums are propagated early, planted out or potted, and topped and again planted in May or June, they have run up a substantial cost, but the heaviest is the fact that such stock will not usually start off and continue growing as free as cuttings right out of the sand—delivered the day you want 'em: besides planting cuttings directly reduces labor costs to a minimum, and to make a profit on mums or any crop, every cost must be studied. Uniformly good quality is of first importance but it means nothing if it doesn't leave you a margin. Whether your requirements are 10 or 100,000, we want to hear from you.

The Novelty Section has been omitted from this catalogue. A circular, listing this year's introductions with full descriptions will be issued after the current blooming season.

NOTE: These 3 index pages showing names of all varieties of mum with page numbers are for use in locating any certain variety as it is arranged alphabetically, while in the regular listing of varieties they are all arranged in order of blooming dates.

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Rose Charm 14 Topknot 16 Yellow New York 11 Rose Chochard 9-21 Tuxedo 17 Yellow Normandie (See Rose Glory 9 U Barbara Cummings 17 Rose Glow 19 Unalga (See Gold Coin) 12 Yellow Pockett 10 Roselea 14 Unique 11 Yellow Princeton 12 Rose Marie 9 Usona 14 Yellow Rolinda 16-20 Rose Pearl 13 Uvalda 12 Yellow Silver Star 12 Rose Glow 19 Valencia 15 Yellow Spoon 17 Rose Glow 19 Valencia 15 Yellow Solver Star 12 Rose Pearl 13 Venus 19 Yellow Spoon 17 Rose Glow 19 Valencia 15 Yellow Spoon 17 Rowenna 13 Venus 19 Yellow Supreme 16 Royal Crimson 14 Vera Victoria			Yellow Monument7
Rose Chochard 9-21 Tuxedo 17 Yellow Normandie (See Barbara Cummings) 17 Rose Glow 19 Unalga (See Gold Coin) 12 Yellow Pockett 10 Roselea 14 Unique 11 Yellow Princeton 12 Rose Marie 9 Usona 14 Yellow Rolinda 16-20 Rose Pearl 13 Uvalda 12 Yellow Sea Gull 11 Rose Perfection 9 V Yellow Silver Star 12 Rosy Gem 19 Valencia 15 Yellow Spoon 17 Rowenna 13 Venus 19 Yellow Supreme 16 Royal Crimson 14 Vera Victoria (See Mary L. Yellow Taggart 10 Royal Queen 12 Hall) 11 Yellow Turner 10 Ruth Cummings 19 Vermont 10 Yellow Yuletide 12 Ruth Hatton 18 Viking 15 Yolanda 16 Vivid 19		Topknot16	Yellow New York11
Rose Gloy			Yellow Normandie (See
Roselea 14 Unique 11 Yellow Princeton 12 Rose Marie 9 Usona 14 Yellow Rolinda 16-20 Rose Pearl 13 Uvalda 12 Yellow Sea Gull 11 Rose Perfection 9 V Yellow Silver Star 12 Rosy Gem 19 Valencia 15 Yellow Spoon 17 Rowenna 13 Venus 19 Yellow Supreme 16 Royal Crimson 14 Vera Victoria (See Mary L. Yellow Taggart 10 Royal Queen 12 Hall) 11 Yellow Turner 10 Ruth Cummings 19 Vermont 10 Yellow Yuletide 12 Ruth Hatton 18 Viking 15 Yolanda 16 S Vivid 19 Yomei 11			Barbara Cummings)17
Rose Marie 9 Usona 14 Yellow Rolinda 16-20 Rose Pearl 13 Uvalda 12 Yellow Sea Gull 11 Rose Perfection 9 V Yellow Silver Star 12 Rosy Gem 19 Valencia 15 Yellow Spoon 17 Rowenna 13 Venus 19 Yellow Supreme 16 Royal Crimson 14 Vera Victoria (See Mary L Yellow Taggart 10 Royal Queen 12 Hall) 11 Yellow Turner 10 Ruth Cummings 19 Vermont 10 Yellow Yuletide 12 Ruth Hatton 18 Viking 15 Yolanda 16 S Vivid 19 Yomei 11		Unalga (See Gold Coin)12	
Rose Pearl 13 Uvalda 12 Yellow Sea Gull 11 Rose Perfection 9 V Yellow Silver Star 12 Rosy Gem 19 Valencia 15 Yellow Spoon 17 Rowenna 13 Venus 19 Yellow Supreme 16 Royal Crimson 14 Vera Victoria (See Mary L. Yellow Taggart 10 Royal Queen 12 Hall) 11 Yellow Turner 10 Ruth Cummings 19 Vermont 10 Yellow Yuletide 12 Ruth Hatton 18 Viking 15 Yolanda 16 S Vivid 19 Yomei 11		Unique11	Yellow Princeton12
Rose Perfection 9 V Yellow Silver Star 12 Rosy Gem 19 Valencia 15 Yellow Spoon 17 Rowenna 13 Venus 19 Yellow Supreme 16 Royal Crimson 14 Vera Victoria (See Mary L. Yellow Taggart 10 Royal Queen 12 Hall) 11 Yellow Turner 10 Ruth Cummings 19 Vermont 10 Yellow Yuletide 12 Ruth Hatton 18 Viking 15 Yolanda 16 S Vivid 19 Yomei 11		Usona14	Yellow Rolinda16-20
Rosy Gem 19 Valencia 15 Yellow Spoon 17 Rowenna 13 Venus 19 Yellow Supreme 16 Royal Crimson 14 Vera Victoria (See Mary L. Yellow Taggart 10 Royal Queen 12 Hall) 11 Yellow Turner 10 Ruth Cummings 19 Vermont 10 Yellow Yuletide 12 Ruth Hatton 18 Viking 15 Yolanda 16 S Vivid 19 Yomei 11		V V	
Rowenna 13 Venus 19 Yellow Supreme 16 Royal Crimson 14 Vera Victoria (See Mary L. Yellow Taggart 10 Royal Queen 12 Hall) 11 Yellow Turner 10 Ruth Cummings 19 Vermont 10 Yellow Yuletide 12 Ruth Hatton 18 Viking 15 Yolanda 16 S Vivid 19 Yomei 11			
Royal Crimson 14 Vera Victoria (See Mary L. Yellow Taggart 10 Royal Queen 12 Hall) 11 Yellow Turner 10 Ruth Cummings 19 Vermont 10 Yellow Yuletide 12 Ruth Hatton 18 Viking 15 Yolanda 16 S Vivid 19 Yomei 11		Venus 10	
Royal Queen 12 Hall) 11 Yellow Turner 10 Ruth Cummings 19 Vermont 10 Yellow Yuletide 12 Ruth Hatton 18 Viking 15 Yolanda 16 S Vivid 19 Yomei 11	Royal Crimson14	Vera Victoria (See Mary I	Yellow Taggart 10
Ruth Cummings 19 Vermont 10 Yellow Yuletide 12 Ruth Hatton .18 Viking .15 Yolanda .16 S Vivid .19 Yomei .11	Royal Queen12	Hall)	Yellow Turner
Ruth Hatton	Ruth Cummings19	Vermont10	Yellow Yuletide 12
Vivid ———————————————————————————————————		Viking15	Yolanda16
Saladin		Vivid19	Yomei11
	Saladin19	vuican18	Yuvawn12

Large Flowering Commercial Varieties

In this catalog are two duplications of names as follows:

December Glory—A large mum.

December Glory—A pompon.

Innocence—A hardy Korean pompon.
Smith's Innocence—A white anemone.

When either of these varieties are ordered, kindly specify clearly which is intended.

NOTE

When variety **Gladys Pearson** is ordered, original stock will be shipped. When **Dark Bronze Gladys Pearson** is requested, Oak Leaf will be shipped.

Under Hardy Chrysanthemums we have listed variety "Amelia." This is identical with variety "Pink Cushion."

- X-Extra good or generally accepted best varieties.
- S-Indicates varieties we find most suitable for shading.
- P-Indicates varieties suitable for Pot Plants.
- *-Indicates it will be impossible for us to make delivery before May 1st.

NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO

YELLOW

			Select			ce per
	Name and Description	Height	Bud	Matures	100	1000
	Yellow Frost. Yellow	Short	Early	Early	\$3.00	\$27.50
	Golden Glow. Pale golden yellow. Incurved	Med.	Aug. 1	Oct. 1	3.00	27.50
P	Gold Lode. Golden vellow	Med.	Aug. 25	Oct. 1	3.00	27.50
*	Golden October. Rich golden yellow. Semi-in-					
	curved	Med.	Aug. 25	Oct. 10	3.00	27.50
X	William Didden. Yellow. Sport from Indianola	Med.	Aug. 25	Oct. 10	3.00	27.50
XP	Celestra. Bright yellow	Med.	Ter. Bud	Oct. 15	3.00	27.50
	Comet. Deep lemon yellow. Incurved	Med.	Ter. Bud	Oct. 15	12.00	100.00
	Chrysolora. Large incurved light yellow	Med.	Aug. 15	Oct. 15	3.00	27.50
XSP	Mrs. H. E. Kidder. Bright yellow	Med.	Aug. 25	Oct. 20	3.00	27.50
X	Yellow Ambassador. Yellow. Sport from Am-					MELF
		Med.	Ter. Bud	Oct. 25	3.00	27.50
	Golden Wave. Yellow	Short	Sept. 5	Oct. 25	3.00	27.50
X	Blazing Gold. Golden yellow	Med.	Ter. Bud	Oct. 25	6.00	50.00
	Corona. Deep yellow	Tall	Ter. Bud	Oct. 25	3.00	27.50
	Smith's Superlative. Golden yellow	Med.	Aug. 25	Oct. 25	3.00	27.50
XSP	Sunglow. Yellow	Med.	Aug. 25	Oct. 25	3.00	27.50
	Citronella. Light yellow	Short	Aug. 31	Oct. 28	3.00	27.50
XSP	Golden Glory. Golden yellow	Short	Aug. 25	Nov. 1	3.00	27.50
		Med.	Aug. 25	Nov. 1	3.00	27.50
	Col. F. M. Alger. Pernet yellow	Med.	Sept. 5	Nov. 1	4.00	35.00
XS	Good News. Yellow. Sport from Detroit News.				2.00	
1		Med.	Aug. 30	Nov. 1	3.00	27.50
		Med.	Sept. 5	Nov. 10	3.00	27.50
	Whittier. Yellow	Med.	Sept. 15	Nov. 13	3.00	27.50
X	Yellow Monument. Yellow. Sport from Monu-		c . 10	NI 15	2.00	27.50
	Columbus Dispatch. Deep yellow. Large bloom	Med.	Sept. 10	Nov. 15	3.00	27.50
VD	Columbus Dispatch. Deep yellow. Large bloom	Med.	Sept. 1	Nov. 15	3.00	27.50
XP		Short	Ter. Bud	Nov. 15	3.00	27.50
-	Jubilee. Clear Bonnaffon yellow		Ter. Bud	Nov. 15	6.00	50.00
P	Secretary Nehrling. Buff yellow		Sept. 15	Nov. 18	3.00	27.50
	Golden Celebration. Light yellow		Sept. 15	Nov. 20	5.00	27.50 27.50
V	Major Bonnaffon, Yellow		Sept. 10	Nov. 20	3.00	27.50
	Yellow Mefo. Yellow. Sport from Mefo		Sept. 20	Nov. 20	3.00	27.50
AP	Friendly Rival. Large golden yellow	med.	Sept. 10	Nov. 20	3.00	27.50

Enclose Your Mum With Your Seed Order

Large Flowering Commercial Varieties (Continued)

	Laige Howering Commercia					
			Select		Pric	e per
	Name and Description	Height	Bud	Matures	100	1000
~		Tall	Ter. Bud	Nov. 20	3.00	27.50
\$	Friendly Call. Buff yellow	Short	Sept. 15	Nov. 23	3.00	27.50
YS	Golden Pearson. (Leroy Zang) Yellow. Sport	511011				
Ya	from Gladys Pearson	Med.	Sept. 30	Nov. 25	3.00	27.50
YP	Sun Gold. Yellow	Med.	Sept. 30	Nov. 25	3.00	27.50
AF	Golden Chadwick. Yellow	Med.	Ter. Bud	Nov. 25	3.00	27.50
	Yellow Chattanooga. Light yellow	Med.	Sept. 20	Nov. 25	3.00	27.50
X	Improved Yellow Chattanooga. Light yellow	Med.	Sept. 20	Nov. 25	8.00	75.00
	Loretta. Intense yellow	Short	Aug. 30	Nov. 30	5.00	40.00
P	R. M. Calkins. Golden yellow	Med.	Sept. 20	Nov. 30	3.00	27.50
	Yellow December Glory. Light yellow	Tall	Sept. 30	Nov. 30	3.00	27.50
X	Golden Mrs. Ross. Golden yellow. (Improved			100000		23757710
	Nellie T. Ross.)	Tall	Ely Oct.	Dec. 3	3.00	27.50
X	Golden Mistletoe. Yellow	Med.	Sept. 30	Dec. 10	3.00	27.50
	Tobin's Late Yellow. Yellow. Sport from Smith's			1927/19.20		100
	Late White	Short	Sept. 30	Dec. 15	3.00	27.50
X	Improved Tobin's Late Yellow. Deep yellow.					
	Sport from Tobin's Late Yellow	Short	Sept. 30	Dec. 15	4.00	35.00
	WL	ITE				
	WH	IIE				
	Early Frost. White	Short	Early	Early	3.00	27.50
	Smith's Early White. White	Tall	Aug. 10	Oct. 5	3.00	27.50
YD	Quaker Maid. White	Med.	Aug. 25	Oct. 15	3.00	27.50
AF	Oconto. White	Med.	Aug. 25	Oct. 15	3.00	27.50
YS	Camilla. White	Tall	Aug. 25	Oct. 18	3.00	27.50
	Silver Sheen. Standard early white	Med.	Aug. 30	Oct. 18	3.00	27.50
P	Christina. White. Sport from Rose Chocard	Short	Aug. 25	Oct. 20	3.00	27.50
	White Chief. White	Med.	Ter. Bud	Oct. 20	3.00	27.50
XP	Ambassador. Large long stemmed white	Med.	Ter. Bud	Oct. 23	3.00	27.50
*	Albatross. Pure white	Med.	Ter. Bud	Nov. 1	6.00	50.00
XS	Snow White. White	Med.	Ter. Bud	Nov. 1	3.00	27.50
	Stately White. White	Tall	Ter. Bud	Nov. 1	3.00	27.50
	Betsy Ross. Finely shaped white	Tall	Aug. 25	Nov. 1	3.00	27.50
	White Chieftain. White	Short	Aug. 30	Nov. 5	3.00	27.50
X	Chas. W. Johnson. A standard white	Med.	Sept. 10	Nov. 5	3.00	27.50
	Chas. Rager. White	Med.	Sept. 15	Nov. 10	3.00	27.50
X	Monument. White	Med.	Sept. 10	Nov. 15	3.00	27.50
	Edgar Stillman Kelly. White		Sept. 15	Nov. 15	3.00	27.50
P	Favorite. White	Med.	Sept. 5	Nov. 15	3.00	27.50
	Marketeer. Finest late white		Ter. Bud	Nov. 18	3.00	27.50
X	Mefo. White		Sept. 20	Nov. 20	3.00	27.50
	Antartic. Incurved		Ter. Bud		12.00	100.00
	Tom Browne. White	Med.	Ter. Bud	Nov. 20	3.00	27.50
D	White Distinction. White.	Med.	Ter. Bud	Nov. 25	3.00	27.50
	White Frick. White. Sport from Helen Frick		Sept. 10	Nov. 25	3.00	27.50
	White Chadwick, White	Med.	Sept. 20	Nov. 25	3.00	27.50
^	Miss Flora Bowers. White	Med.	Ter. Bud	Nov. 25	3.00 5.00	27.50 40.00
×	December Glory. White	Tall	Sept. 5 Sept. 30	Nov. 30	3.00	27.50
~	December Beauty. White, tinged with pink	Med.		Dec. 1		27.50
	Improved December Beauty. Pure white. Sport	rried.	Oct. 1	Dec. 8	3.00	21.50
	from December Beauty	Med.	Oct. 1	Dec. 8	4.00	35.00
X	White Mistletoe. White	Med.	Sept. 30	Dec. 10	3.00	27.50
XP	Smith's Late White. White	Short	Sept. 30	Dec. 15	3.00	27.50
		3	Jop 1. 30	DCC. 13	3.50	21.50
	DDO:	1				
	BRON	YZE				
P	Bronze Lode. Light bronze. Sport from Gold	4.00				Barrelle.
We	Lode	Med.	Aug. 25	Oct. 1	3.00	27.50
XZ	Indianola. Light bronze	Med.	Aug. 25	Oct. 10	3.00	27.50

Large Flowering Commercial Varieties (Continued)

			Select		Pric	ce per
	Name and Description	Height	Bud	Matures	100	1000
SP	Hilda Bergen. Bronze	Med.	Aug. 25	Oct. 25	3.00	27.50
	Keystone. Bronze	Med.	Aug. 30	Oct. 25	3.00	27.50
XP*	Glitters. Bright bronze	Med.	Ter. Bud	Oct. 28	3.00	27.50
XP	Apricot Queen. Orange bronze	Short	Sept. 5	Nov. 1	3.00	27.50
		Med.	Aug. 30	Nov. 1	3.00	27.50
X	Anna Kaskas. Golden bronze	Tall	Sept. 5	Nov. 5	3.00	27.50
X	Indianapolis Bronze. Buff bronze suffused with					
	pink. Incurved	Med.	Ter. Bud	Nov. 8	12.00	100.00
*	Indian Chief. Deep reddish bronze; golden buff					
	reverse	Med.	Sept. 5	Nov. 10	3.00	27.50
	Mrs. A. J. Stahelin. Bronze with reverse petals,					
	yellow	Med.	Ter. Bud	Nov. 15	3.00	27.50
	Golden Oak. Golden bronze	Med.	Ter. Bud	Nov. 18	3.00	27.50
	Gladys Pearson. Good light bronze	Med.	Sept. 30	Nov. 25	3.00	27.50
	Oak Leaf. Dark bronze.	Med.	Sept. 30	Nov. 25	3.00	27.50
XP		Short	Sept. 10	Nov. 25	3.00	27.50
	Bronze Chadwick. Bronze	Med.	Ter. Bud	Nov. 25	3.00	27.50
X	Bronze Mistletoe. Bronze	Med.	Sept. 30	Dec. 10	3.00	27.50

PINK

SP XS X P	Major Ed. Bowes. Pink. Medium length stem October Rose. Pink	Short Tall Short Med. Med. Short Med. Tall Med.	Aug. 5 Aug. 25 Ter. Bud Ter. Bud Aug. 30 Sept. 5 Aug. 15 Ter. Bud Sept. 10 Sept. 10 Aug. 30	Oct. 1 Oct. 10 Oct. 15 Oct. 15 Oct. 20 Oct. 20 Oct. 20 Oct. 20 Oct. 25 Nov. 1 Nov. 1	3.00 3.00 3.00 3.00 3.00 3.00 3.00 12.00 3.00 3.00	27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 100.00 27.50 27.50 27.50
P * X	Indianapolis Pink. Excellent light lavender. Darker reverse Floyd Gibbons. Salmon pink with buff reverse Rose Perfection. Pink Pink Treasure. Pink Orchid Queen. Orchid pink Dr. Enguehard. Rose pink Peter John. Light pink. Sport from Thanksgiving	Short Short Short Med. Med.	Ter. Bud Sept. 15 Sept. 10 Sept. 20 Ter. Bud Sept. 5	Nov. 8 Nov. 10 Nov. 10 Nov. 10 Nov. 10 Nov. 20	3.00 3.00 3.00 3.00 3.00 3.00	27.50 27.50 27.50 27.50 27.50 27.50
XP	Pink Thanksgiving Pink, Dark pink Distinction, Pink Helen Frick, Pink Pink Chadwick, Pink Edwin Seidewitz, Bright pink Pink Mistletoe, Pink	Short Short Med. Med. Med. Tall Med.	Sept. 15 Sept. 15 Ter. Bud Sept. 10 Ter. Bud Sept. 15 Sept. 30	Nov. 23 Nov. 23 Nov. 25 Nov. 25 Nov. 25 Nov. 30 Dec. 10	3.00 3.00 3.00 3.00 3.00 3.00 3.00	27.50 27.50 27.50 27.50 27.50 27.50 27.50

RED

_	Governor Green. Crimson with old gold reverse	Short	Aug. 15	Oct. 15	3.00	27.50
	Mrs. David F. Roy. Crimson with bronze reverse; Excellent			Nov. 8	3.00 3.00	27.50 27.50
P	Garnet King. Deep, bright red	Med.	Sept. 30	Nov. 18 Nov. 30 Nov. 30	3.00	27.50 27.50 27.50

New Varieties Are Increasing The Value Of Mums Annually

Exhibition Varieties

NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO **YELLOW**

			Select		Fric	e per
	Name and Description	Height	Bud	Matures	100	1000
	Harvest Moon. Bright yellow	Short	Ter. Bud	Oct. 25	\$5.00 p	per doz.
X	Golden Majestic. Bright yellow		Aug. 20	Nov. 1	8.00	75.00
	J. R. Booth. Yellow.	Med.	Aug. 15	Nov. 1	8.00	75.00
X	Yellow Turner. Yellow	Med.	Aug. 25	Nov. 5	6.00	50.00
X	Yellow Pockett. Yellow	Med.	Aug. 15	Nov. 8	8.00	75.00
	WUI	TE				
	WHI					
	Alice Benson. White	Med.	Aug. 30	Nov. 1	8.00	75.00
X	William Turner. White	Med.	Aug. 25	Nov. 5	6.00	50.00
	Louisa Pockett. White		Aug. 15	Nov. 8	8.00	75.00
	DDON	176				
	BRON	YZE				
X	Majestic. Clear, shiny amber bronze	Short	Aug. 20	Nov. 1	8.00	75.00
	Mrs. H. S. Firestone. Chamois buff		Aug. 25	Nov. 1	8.00	75.00
	Marian H. Uffinger. Bronzy crimson with a					
	gold reverse	Med.	Aug. 20	Nov. 1	8.00	75.00
	Nagirroc. Golden bronze		Aug. 15	Nov. 1	8.00	75.00
Х	Bronze Turner. Light bronze		Aug. 25	Nov. 5	6.00	50.00
	W. H. Waite. Bronze		Aug. 15	Nov. 5	6.00	50.00
	DIA	11/				
	PIN					

Vermont. Pink

Nov. 1

Nov. 1

Nov. 5

Nov. 8

Nov. 8

Aug. 15

Aug. 25 Aug. 25 Aug. 15 6.00

8.00

6.00

8.00

8.00

50.00

75.00

50.00 75.00

75.00

La France. Purple...... Med.

 silver reverse
 Tall

 Pink Turner. (Mrs. Leslie Davis) Pink...
 Med.

 Thos. W. Pockett. Pink...
 Med.

X Dr. J. M. Inglis. Wine purple amaranth with

	RE	D				
X	Grace Sturgis. Wine red with pinkish-silver reverse	Tall	Aug. 25	Nov. 1	6.00	50.00
X	Red Majestic. Bronzy red		Aug. 25	Nov. 1	8.00	75.00
	verse	Med.	Aug. 20	Nov. 1	8.00	75.00
X	Improved W. H. Waite. Red			Nov. 5 Nov. 8	6.00 8.00	50.00 75.00

Odd Formed--Feathery and Threadlike--**Varieties**

NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO

	Name and Description	Height	Select Bud	Matures	Pri 100	ce per 1000
	White Sensation. White	Med.	Ter, Bud	Nov. 1	\$8.00	\$75.00
	Kimie. Golden bronze	Med.	Ter, Bud	Nov. 1	8.00	75.00
	Marie Tashima. White	Tall	Ter, Bud	Nov. 1	8.00	75.00
	Golden Pride. Golden yellow	Short	Ter, Bud	Nov. 1	8.00	75.00
	Yamabuki. Yellow	Med.	Ter. Bud	Nov. 1	8.00	75.00
	Sam Caswell. Light rose pink	Med.	Ter. Bud	Nov. 1	6.00	50.00
X	Yellow Taggart. Yellow quilled petals covered					
	with hair	Med.	Ter. Bud	Nov. 1	6.00	50.00
X	Ohkwan. Yellow	Med.	Ter. Bud	Nov. 1	6.00	50.00
	The Dean. White		Ter. Bud	Nov. 1	6.00	50.00
	June Arnold. White with cream center	Short	Ter. Bud	Nov. 5	8.00	75.00
	Bess Witt. Bronze. (Sport from Peggy Ann					
	Hoover)	Short	Ter. Bud	Nov. 5	8.00	75.00
X	Patricia Grace. (Rayonnante) Shell pink	Med.	Ter. Bud	Nov. 5	6.00	50.00

A Few Exhibition Varieties Well Grown Is An Attraction

Odd Formed--Feathery and Threadlike--Varieties (Continued)

		Select		Pric	e per
Name and Description	Height	Bud	Matures	100	1000
Butterfly. Yellow	Tall	Ter. Bud	Nov. 5	8.00	75.00
Peggy Ann Hoover. Quilled lavender	Short	Ter. Bud	Nov. 5	6.00	50.00
	Med.	Ter. Bud	Nov. 5	6.00	50.00
Benten. Bronze and deep red tips, with green					
center	Med.	Ter. Bud	Nov. 10	6. 0 0	50.00
Silver Drops. White	Short	Ter. Bud	Nov. 10	8.00	75.00
Yomei. Golden tube petals with red spoon-end					
	Med.	Ter. Bud	Nov. 10	6.00	50.0 0
Pride of Tokyo. Creamy pink. A novelty with odd					
tubular petals	Tall	Ter. Bud	Nov. 10	6.00	50.0 0
Japanese Maiden. Yellow	Med.	Ter. Bud	Nov. 25	6.00	50.00
Unique. Rich wine red	Tall	Ter. Bud	Dec. 1	6.00	50 .00
	Butterfly. Yellow Peggy Ann Hoover. Quilled lavender	Butterfly. Yellow	Name and Description Butterfly. Yellow	Name and Description Butterfly, Yellow	Name and Description Butterfly, Yellow

Pompons & Decorative Commercial Varieties

The term Pompon is applied to those varieties which are of the true

rounded type, and those very nearly approaching this type.

Decorative varieties are those which are a distinct departure from the rounded type. Their flowers are less compact, partly reflexed and display more of the color of the inner side of the petals.

Size of flower is indicated by S—small; Int.—intermediate; L—large.

X—Extra good or generally accepted best varieties.

S-Indicates varieties we find most suitable for shading.

P-Indicates varieties suitable for Pot Plants.

D—Indicates smaller flowered varieties most suitable for growing as disbudded pompons.

*—Indicates it will be impossible to make delivery before May 1st.

NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO

YELLOW

					Pri	ce per
	Name and Description	Height	Type	Matures	100	1000
	Ida Improved. Yellow	Med.	Int. Pomp.	Oct. 15	\$3.00	\$27.50
	Yellow Irene. Light lemon yellow. Sport from					
Vcn	Irene	Short	S. Pomp.	Oct. 18	4.00	35.00
XSP	Rodell Improved. Yellow. Sport from Rodell;	CI .		0 . 20	2.00	
	Excellent	Short	Int. Pomp.	Oct. 20	3.00	27.50
	Masaka. Yellow	Med.	L. Pomp.	Oct. 20	3.00	27.50
XS	Gold Finch. Yellow	Med.	Int. Pomp.	Oct. 20	3.00	27.50
XS	Golden Spray. Yellow	Med.	Int. Pomp.	Oct. 23	3.00	27.50
D	Golden Fairy. Yellow	Med.	L. Pomp.	Oct. 23	3.00	27.50
XPD	Golden Herold. Large extra deep golden yellow	Med.	L. Dec.	Oct. 25	3.00	27.50
	Cora Peck Buhl. Yellow	Tall	Int. Pomp.	Oct. 25	3.00	27.50
XS	Yellow Dot. (Jablonsky.) Yellow; reddish center	Med.	Int. Pomp.	Oct. 25	3.00	27.50
XSD	Mary Lennon Hall. Clear rich yellow	Tall	Int. Pomp.	Nov. 1	3.00	27.50
	Gold Drop. Old gold	Med.	Int. Pomp.	Nov. 1	3.00	27.50
	Yellow Sea Gull. Yellow. Sport from Sea Gull	Tall	Int. Pomp.	Nov. 1	3.00	27.50
D	Yellow Doty. Yellow	Med.	L. Pomp.	Nov. 1	3.00	27.50
XSP	Nuggets. Best early yellow	Short	S. Pomp.	Nov. 5	3.00	27.50
X	Derigold. Lemon yellow	Med.	Int. Pomp.	Nov. 10	3.00	27.50
XS	Yellow New York. Yellow	Med.	S. Pomp.	Nov. 13	3.00	27.50
	Golden Splendor. Bright yellow	Med.	Int. Pomp.	Nov. 15	3.00	27.50
XSP	Yellow Fellow. Yellow		Int. Dec.	Nov. 15	3.00	27.50
	Lois. Golden yellow		S. Pomp.	Nov. 18	3.00	27.50
- ~ 1	30101 301001 30101	med.	J. Fortip.	1404. 10	3.00	27.50

We Can't Accept Orders For Less Than 10 Of A Kind

Pompons & Decorative Commercial Varieties

YELLOW (Continued)

Price per

	Name and Description	Height	Туре	Matures	100	1000
Х	Tom Pearson. Deep yellow	Med.	Int. Pomp.	Nov. 18	3.00	27.50
	Yellow Princeton. Deep lemon yellow		Int. Dec.	Nov. 20	8.00	75.00
PD	Ball of Gold. Yellow		Int. Pomp.	Nov. 20	3.00	27.50
	Big Baby. Yellow		S. Pomp.	Nov. 20	3.00	27.50
	Hasegawa Gold. Large golden yellow		Int. Pomp.	Nov. 23	3.00	27.50
X	Golden Sceptre. Yellow		Int. Pomp.	Nov. 25	3.00	27.50
	Long Island Sunshine. Bright yellow		Int. Pomp.	Nov. 28	3.00	27.50
P	Yellow Yuletide. Yellow		Int. Pomp.	Nov. 28	3.00	27.50
	Christmas Gold. Bright yellow		S. Pomp.	Nov. 28	3.00	27.50
	Canary. Pale lemon yellow		Int. Pomp.	Nov. 28	12.00	100.00
Х	Yellow Cordova. Yellow. Sport from Cordova		Int. Dec.	Nov. 30	3.00	27.50
	Gold Coin. (Unalga) Yellow		Int. Pomp.	Dec. 1	3.00	27.50
KPD	Yuvawn. Yellow	Med.	Int. Pomp.	Dec. 3	3.00	27.50
	Modena. Yellow	Med.	Int. Pomp.	Dec. 5	3.00	27.50
	Golden Modena. Deep golden yellow. Sport from	77100.	mit. i omp.	200. 5	5.00	
	Modena	Med.	Int. Pomp.	Dec. 5	4.00	35.00
X	Tokyo. Yellow		S. Dec.	Dec. 10	3.00	27.50
	Buttercup. Yellow	Tall	Int. Pomp.	Dec. 10	3.00	27.50
	*Yellow Silver Star. Yellow. Sport from Silver	1 411	mit. i omp.	Dec. 10	5.00	_,,,,
^	Star	Tall	Int. Pomp.	Dec. 10	3.00	27.50
X	December Gold. Deep golden yellow		Int. Dec.	Dec. 15	8.00	75.00
	Christmas Cheer. Deep yellow		Int. Pomp.	Dec. 15	3.00	27.50
^	Ciristinus Circui. Deep yellow	Med.	int. Fomp.	Dec. 17	3.00	27.50
	34/11					
	WH	HE				
	Earliwhite. White	Med.	Int. Pomp.	Oct. 10	3.00	27.50
	Uvalda. Creamy white		Int. Pomp.	Oct. 10	3.00	27.50
XSP	White Jewell. White suffused with pink	Short	S. Pomp.	Oct. 15	3.00	27.50
SD	Silver Ball. White		L. Pomp.	Oct. 15	3.00	27.50
	Snow Cloud. White		Int. Pomp.	Oct. 15	3.00	27.50
XSP	Irene. White		S. Pomp.	Oct. 18	3.00	27.50
	Greta. White	Med.	Int. Pomp.	Oct. 20	3.00	27.50
	Minong. White		S. Pomp.	Oct. 20	3.00	27.50
P	Silver Bells. White	Med.	S. Pomp.	Oct. 23	3.00	27.50
XS	Arcadia. Finest pure white	Med.	Int. Pomp.	Oct. 28	3.00	27.50
	White Pearl. White suffused with pink. Sport					
	from Rose Pearl	Med.	Int. Pomp.	Oct. 28	12.00	100.00
XSD	Sea Gull. White	Tall	Int. Pomp.	Nov. 1	3.00	27.50
D	Marianna. White	Med.	L. Pomp.	Nov. 1	3.00	27.50
X	Dainty Maid. White, tinged with pink	Med.	S. Pomp.	Nov. 1	3.00	27.50
XP	Mary Pickford. White	Short	S. Pomp.	Nov. 1	3.00	27.50
XSD	White Doty. White	Med.	L. Pomp.	Nov. 1	3.00	27.50
XSD	Elora. Pearly white	Tall	L. Pomp.	Nov. 1	3.00	27.50
XS	Rev. Horace Bushnell. White	Tall	Int. Pomp.	Nov. 8	3.00	27.50
X	Crystal Jewell. White	Tall	S. Pomp.	Nov. 8	3.00	27.50
D	Crystal White. White	Tall	Int. Pomp.	Nov. 10	3.00	27.50
	Penguin. White	Med.	S. Pomp.	Nov. 10	3.00	27.50
X	Chicago Pearl. Finest clear white		Int. Pomp.	Nov. 15	3.00	27.50
	Bobbie. Large creamy white		S. Pomp.	Nov. 18	3.00	27.50
	Pearl. White		Int. Pomp.	Nov. 20	8.00	75.00
XP	White Yuletide. White		Int. Pomp.	Nov. 28	3.00	27.50
	Cordova. White		Int. Dec.	Nov. 30	3.00	27.50
	Royal Queen. White		Int. Pomp.	Dec. 5	3.00	27.50
	White Tonguin. Pure white. Sport from Tonguin		Int. Pomp.	Dec. 10	5.00	40.00
X	*Silver Star. White		Int. Pomp.	Dec. 10	3.00	27.50
	December Glory. (Pompon) White		Int. Dec.	Dec. 15	3.00	27.50
	Bridal Bells. White		Int. Dec.	Dec. 15	3.00	27.50
X	Snow. Ivory white		Int. Pomp.	Dec. 30	8.00	75.00

If Your Express Differs From Your Post Office, Tell Us

Pompons & Decorative Commercial Varieties (Continued)

BRONZE

Price per

	Name and Description	Height	Туре	Matures	100	1000
	Clara Jameson. Dark reddish bronze	Med.	S. Pomp.	Oct. 15	3.00	27.50
	Nubian. Bronzy red		Int. Pomp.	Oct. 15	3.00	27.50
	Bonnibell. Orange buff		S. Pomp.	Oct. 15	3.00	27.50
D	Tango. Reddish bronze		L. Pomp.	Oct. 15	7.00	65.00
VC	Carlina Lee. Reddish bronze	Med.	Int. Dec.	Oct. 20	3.00	27.50
	Roman Bronze, Bronze, Sport from Capt. Cook		Int. Pomp.	Oct. 20	3.00	27.50
Y Y	Suntan. Bronze	Med. Med.	Int. Pomp. S. Pomp.	Oct. 20 Oct. 23	3.00	27.50 27.50
	Jemima. Bronze		Int. Pomp.	Oct. 23	3.00	27.50
	*Bronze Queen. Dark bronze		S. Pomp.	Oct. 25	3.00	27.50
	Ethel. Bronze		S. Pomp.	Oct. 25	3.00	27.50
	Joan Wells. Bronze. Sport from Pink Dot		Int. Pomp.	Oct. 25	3.00	27.50
XS	Fire Bird. Red bronze	Med.	Int. Dec.	Oct. 25	3.00	27.50
	Bronze Doty. Bronze		Int. Pomp.	Nov. 1	3.00	27.50
	Source D'Or. Bronze		Int. Dec.	Nov. 1	3.00	27.50
	Elizabeth Peterson. Orange bronze		Int. Dec.	Nov. 3	3.00	27.50
XD	*Edith Newberry. Orange rust	Tall	L. Dec.	Nov. 5	3.00	27.50
Ď	Peggy Poesch. Brilliant apricot	Med.	L. Dec.	Nov. 10	4.00	35.00
U	Muskoka. Bronze		L. Pomp.	Nov. 10	3.00	27.50
VC	Pirate Gold. Rich golden bronze		Int. Pomp,	Nov. 10	6.00	50.00
	New York. Bronze		S. Pomp.	Nov. 13	3.00	27.50
	Fez. Deep bronze.		S. Pomp.	Nov. 15	3.00	27.50
	Princeton. Golden yellow suffused with orange		Int. Dec.	Nov. 15		27.50 27.50
AF	November Bronze. Orange bronze		Int. Pomp.	Nov. 18 Nov. 20	3.00 3.00	27.50
×	Catherine. Bronze		Int. Dec.	Nov. 20	3.00	27.50
	Bronze Beauty. Bronze		Int. Dec.	Nov. 25	3.00	27.50
^	Betty Watkins. Bronzy yellow		Int. Pomp.	Nov. 25	3.00	27.50
n	Capt. Blood. Dark reddish bronze		L. Dec.	Nov. 25	3.00	27.50
	Dorothy Turner. Bronze		Int. Pomp.	Nov. 25	3.00	27.50
			Int. Pomp.	Nov. 25	6.00	50.00
D	Governor Lake. Reddish bronze		Int. Pomp.	Nov. 25	3.00	27.50
_	Mrs. Beu. Standard bronze		Int. Dec.	Nov. 25	3.00	27.50
	Red Beu. Reddish bronze		Int. Dec.	Nov. 25	3.00	27.50
	Bristolite. Bronze		Int. Pomp.	Nov. 25	3.00	27.50
Ŷ	Gold Tips. Bronze and gold	Med.	Int. Dec.	Nov. 25	3.00	27.50
	Rowenna. Bronze	Tall	Int. Pomp.	Nov. 25	3.00	27.50
1 X	Glow. Orange. Reddish orange at center	Med.	Int. Pomp.	Nov. 30	3.00	27.50
	Avalon. Orange bronze		Int. Dec.	Dec. 1	3.00	27.50
^		Med.	Int. Dec.	Dec. 1	3.00	27.50
	Wildfire. Orange rust	Med.	Int. Dec.	Dec. 3	3.00	27.50
		Med.	Int. Pomp.	Dec. 3	4.00	35.00
	Golden Nymph. Bronze, with reverse of petals					
	gold	Med.	S. Pomp.	Dec. 10	3.00	27.50
	Katherine Johnston. Orange	Med.	Int. Pomp.	Dec. 10	5.00	40.00
	Cavalcade. Mandarin red. Golden bronze reverse		Int. Pomp.	Dec. 10	4.00	35.00
	PIN	IK				
	• • • •					
XSP	Jewell. Bright rose pink	Short	S. Pomp.	Oct. 15	3.00	27.50
P	Dark Pink Jewell. Dark pink. Sport from Jewell	Short	S. Pomp.	Oct. 15	3.00	27.50
	Leileh. Rose pink	Med.	Int. Dec.	Oct. 15	3.00	27.50
	Bonnie Maid. Pink	Med.	Int. Pomp.	Oct. 20	3.00	27.50
	Pink Pearl. Pink	Med.	S. Pomp.	Oct. 20	4.00	35.00
	Capt. Cook. Pink	Tall	Int. Pomp.	Oct. 20	3.00	27.50
P	Persian Rose. Rose pink	Short	Int. Pomp.	Oct. 23	3.00	27.50
	Rose Pearl. Lavender	Med.	Int. Pomp.	Oct. 23	12.00	100.00
X	Jessie. (Madeline) Deep rose pink. Excellent	Med.	Int. Pomp.	Oct. 25	3.00	27.50
	Come Of The Latest Answer	A	un liliable.	A		

Pompons & Decorative Commercial Varieties (Continued)

PINK

						e per
	Name and Description	Height	Туре	Matures	100	1000
PD	Angello. Light pink	Short	L. Pomp.	Oct. 25	3.00	27.50
D	Nellie Kleris. Lavender pink	Tall	L. Pomp.	Oct. 25	3.00	27.50
XS	Pink Dot. White, with pink center. Very excel-					
	lent	Med.	Int. Pomp.	Oct. 25	3.00	27.50
	Highlights. Pale lavender with deep lavender					
	center	Med.	Int. Pomp.	Oct. 25	3.00	27.50
	Ermalinda. Old rose	Med.	S. Pomp.	Oct. 25	3.00	27.50
	Rising Sun. Pink	Med.	Int. Pomp.	Oct. 28	4.00	35.00
S	Bright Spot. Shell pink, Bright center	Med.	S. Pomp.	Nov. 1	3.00	27.50
XD	Irene Rich. Pink	Med.	L. Pomp.	Nov. 1	3.00	27.50
XD	Lillian Doty. Shell pink	Med.	L. Pomp.	Nov. 1	3.00	27.50
D	Rose Charm. Rose pink	Med.	L. Pomp.	Nov. 1	3.00	27.50
	Mrs. Morgan G. Bulkeley. Light pink	Tall	Int. Pomp.	Nov., 8	3.00	27.50
	Thyra. Dark pink	Med.	L. Pomp.	Nov. 10	3.00	27.50
XS	Silver Tips. Bright pink with silver tips	Med.	Int. Pomp.	Nov. 13	3.00	27.50
	Alice. Pink	Med.	Int. Dec.	Nov. 15	3.00	27.50
	Masterpiece. Tourmaline pink	Med.	Int. Pomp.	Nov. 15	3.00	27.50
	Dorothy Nehrling. Deep rose pink	Med.	S. Pomp.	Nov. 15	3.00	27.50
	Western Beauty. Pink	Short	Int. Dec.	Nov. 20	3.00	27.50
	Bobette. Pink with bronze center	Med.	S. Pomp.	Nov. 25	10.00	90.00
Х	Usona, Pink	Med.	Int. Pomp.	Nov. 25	3.00	27.50
	Olivia. Pink	Med.	Int. Pomp.	Dec. 1	3.00	27.50
	Roselea. Pink	Med.	Int. Pomp.	Dec. 1	3.00	27.50
	Pagosa. Dark pink	Med.	Int. Pomp.	Dec. 5	3.00	27.50
	Amaranthea. Purplish crimson	Med.	Int. Pomp.	Dec. 10	5.00	40.00
	Tonquin. Rose color		Int. Pomp.	Dec. 10	3.00	27.50
	Prosperity. Deep lavender		Int. Dec.	Dec. 10	8.00	75.00
	Mother of Pearl. Light rose pink	Tall	Int. Pomp.	Dec. 30	7.00	65.00
	Thomas of Found Light 1990 phillippin	7 4.1	тт. т отгр.	200. 30		03.00
	RE	D		•		
Y	Natoma. Flame scarlet	Short	Int. Dec.	Oct. 25	8.00	75.00
	Fire Ball. Bright crimson.		L. Pomp.	Nov. 1	3.00	27.50
	Red Doty. Red.	Tall	L. Pomp.	Nov. 1	3.00	27.50
	Robin Hood. Rich deep red	Med.	S. Pomp.	Nov. 5	3.00	27.50
	Patsy Dowd. Red				3.00	27.50
Ar	Grenadier. Red	Med.	S. Pomp. Int. Pomp.	Nov. 5 Nov. 10	3.00	27.50
Y	Mrs. Mary Hooker. Red					
	Red Princeton. Reddish bronze	Tall	L. Dec. Int. Dec.	Nov. 15	3.00 4.00	27.50
			Int. Dec.	Nov. 15 Nov. 20	3.00	35.00 27.50
^	•		L. Dec.	Nov. 25	3.00	27.50
~	Helen Hubbard, Red		L. Dec.			
	Royal Crimson. Intensely rich crimson	med.	L. Dec.	Dec. 1	4.00	35.00

Single--Daisy Type--Varieties

X—Extra good or generally accepted best varieties.

S-Indicates varieties we find most suitable for shading.

P—Indicates varieties suitable for Pot Plants.

D-Indicates smaller flowered varieties most suitable for growing as disbudded pompons.

*-Indicates it will be impossible to make delivery before May 1st.

NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO

YELLOW

Price per

	Name and Description	Height	Size	Matures	100	1000
Х	Yellow Daisy. Deep lemon yellow		Intermed.	Oct. 25	\$4.00	\$35.00
	Gretchen Piper. Yellow		Intermed.	Nov. 1	3.00	27.50
	Golden Mensa. Yellow		Intermed.	Nov. 10	3.00	27.50
XD.	*Sonny Boy. Yellow		Intermed.	Nov. 15	3.00	27.50
	Charter Oak. Yellow		Intermed.	Nov. 25	3.00	27.50
	Yellow Godfrey. Yellow		Intermed.	Nov. 25	3.00	27.50
	Jane. Yellow. Sport from Valencia		Large	Nov. 30	3.00	27.50
Х	Fawn. Deep buff yellow		Intermed.	Dec. 5	8.00	75.00
	WH	ITE				
	Silver Emblem. Cream white	Med.	Intermed.	Nov. 1	8.00	75.00
X	White Mensa. White	Med.	Intermed.	Nov. 10	3.00	27.50
	Gladys Duckham. White	Med.	Intermed.	Nov. 20	3.00	27.50
	White Godfrey. White	Tall	Intermed.	Nov. 25	3.00	27.50
	BRON	NZE				
X ⁴	*Absolute. Scarlet bronze with yellow center	Med.	Intermed.	Nov. 1	3.00	27.50
	Aloma. Terra cotta bronze with yellow center		Intermed.	Oct. 20	3.00	27.50
	Bronze Daisy. Light bronze		Intermed.	Oct. 25	4.00	35.00
XD	Joan Piper. Amber bronze	Med.	Intermed.	Oct. 28	3.00	27.50
	Ida Skiff. Bronze		Intermed.	Nov. 1	3.00	27.50
	Bronze Buckingham. Bronze		Intermed.	Nov. 3	3.00	27.50
XD	Mason's Bronze. Burnt orange	Short	Large	Nov. 10	3.00	27.50
	Lighthouse. Bronze shading to watermelon red		Intermed.	Nov. 10	3.00	27.50
	Melba. Reddish bronze	Short	Large	Nov. 15	3.00	27.50
	Elizabeth McDowell. Bronze		Intermed.	Nov. 15 Nov. 25	3.00 3.00	27.50 27.50
AF	Sunburst. Sunburst orange		Large Intermed.	Dec. 1	8.00	75.00
	Dawn. (Hasegawa) Chestnut bronze	Tall	Intermed.	Dec. 5	3.00	27.50
	PIN			200. 3		,
YS	October Pink. Pink		Intermed.	Oct. 25	4.00	35.00
	W. H. Buckingham. Pink		Intermed.	Nov. 3	3.00	27.50
	Fairy Queen. Intense orchid pink		Intermed.	Nov. 15	4.00	35.00
		Tall	Intermed.	Nov. 15	3.00	27.50
X	Hasegawa Pink. Pink with golden center	Med.	Intermed.	Nov. 25	3.00	27.50
	Mrs. E. D. Godfrey. Light pink	Tall	Intermed.	Nov. 25	3.00	27.50
	Valencia. Orchid pink	Tall	Large	Nov. 30	3.00	27.50
XD	Dark Pink Valencia. Deep orchid pink	Tall	Large	Nov. 30	8.00	75.00
	RE	D				
	D. Baker. Red	Short	Large	Oct. 20	3.00	27.50
Х		Med.	Intermed.	Oct. 25	4.00	35.00
	Mrs. Darling. Red	Med.	Intermed.	Nov. 1	3.00	27.50
XD	Red Rover. Crimson orange	Short	Large	Nov. 5	3.00	27.50
	Tagoya. Brilliant goya red	Short	Intermed.	Nov. 10	3.00	27.50
XD	Clara Holford. Warm red	Med.	Large	Nov. 10	4.00	35.00
	Radiant. Bright red	Med.	Intermed.	Nov. 10	3.00	27.50
KPD*	Red Melba. Red	Short	Large	Nov. 15	3.00	27.50
X		Med.	Intermed.	Nov. 25	3.00	27.50
(PD	Carnelia. Red	Short Med.	Large Intermed.	Nov. 30 Dec. 5	3.00 3.00	27.50 27.50
	Joe Beuerlein. Crimson red	Tall	Intermed.	Dec. 10	8.00	75.00
	C. I.I. II D		Anles Ess (Neralitus A		

Cold Houses, Described On Following Pages Make For Quality And Economy

Anemone Flowered Varieties

X—Extra good or generally accepted best varieties.

P-Indicates varieties suitable for Pot Plants.

D—Indicates smaller flowered varieties most suitable for growing as disbudded pompons.

*—Indicates it will be impossible to make delivery before May 1st.

NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO

	YELL	.OW			Pri	ce per
	Name and Description	Height	Size	Matures	100	1000
XD	Yellow Blanche. Yellow. Sport from Blanche	Med.	Intermed.	Nov. 1	\$3.00	\$27.50
XD	Helios. Yellow	Med.	Large	Nov. 10	4.00	35.00
Х	Sunray. Yellow	Med.	Intermed.	Nov. 15	3.00	27.50
ΥD	Faith Engel. Yellow, with golden yellow cushion	Med. Tall	Intermed.	Nov. 15	4.00	35.00
XPD	Susanne Miller. Yellow. Sport from Norma Yellow Rolinda. Deep golden yellow. Sport from	1 011	Large	Nov. 18	3.00	27.50
, b	Rolinda	Med.	Intermed.	Nov. 23	3.00	27.50
D	Maritza. Bright yellow with full highly rounded	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				50
	cushion	Short	Large	Nov. 25	3.00	27.50
PD	Sunshine. Yellow	Short	Intermed.	Nov. 25	3.00	27.50
	Citrus Queen. Lemon orange		Large	Nov. 25	3.00	27.50
	Gleam. Deep lemon yellow	Med.	Large	Dec. 5	8.00	75.00
AD.	Yellow Supreme. Yellow. Sport from Pink Supreme	Mod	Large	Dec. 10	3.00	27 50
Х	Yellow Garza Supreme. Yellow	Short	Intermed.	Dec. 15	3.00	27.50 27.50
	·		miterinea.	Dec. 13	3.00	27.50
	WH	ITE				
XPD	Graceland. Pure white, with yellow center		Intermed.	Oct. 28	3.00	27.50
XSD	Blanche. White	Med.	Intermed.	Nov. 1	3.00	27.50
	White Anemone. White	Tall	Intermed.	Nov. 5	3.00	27.50
	The Belle. Pure white		Intermed.	Nov. 5	3.00	27.50
	Smith's Innocence. White	Tall	Large	Nov. 5	3.00	27.50
XPD	Little America. Snow white; medium size	Med.	Intermed. Intermed.	Nov. 8 Nov. 10	12.00 3.00	100.00 27.50
D		Med.	Large	Nov. 15	8.00	75.00
XPD	White Norma. White	Tall	Large	Nov. 18	3.00	27.50
X	and the second s		Intermed.	Nov. 25	3.00	27.50
D	Swan. White	Med.	Large	Dec. 1	8.00	75.00
XD	White Supreme. White suffused with pink Garza Supreme. Standard white	Med.	Large	Dec. 10	3.00	27.50
^	Sarza Supreme. Standard writte	Snort	Intermed.	Dec. 15	3.00	27.50
	BRON	NZE				
D	Mrs. Chas. Wylie. Light reddish bronze		Large	Nov. 1	8.00	75.00
XD	Bronze Tuxedo. Bronze. Sport from Tuxedo	Med.	Large	Nov. 10	3.00	27.50
D	Cora Scovil. Burnt orange with low golden					
VD	cushion	Med.	Large	Nov. 10	8.00	75.00
XD	Bronze Norma. Bronze. Sport from Norma Estrelita. Bronze thruout, with a full, regular	Tall	Large	Nov. 18	3.00	27.50
, C	cushion	Med.	Large	Nov. 20	2.00	27.50
XPD	Rolinda. Orange bronze	Med	Intermed.	Nov. 20 Nov. 23	3.00 3.00	27.50 27.50
XPD	Red Rolinda. Red. Sport from Rolinda	Med.	Intermed.	Nov. 23	3.00	27.50
	Yolanda. Yellow	Med.	Small	Nov. 25	3.00	27.50
XD	Coral Blaze. Orange bronze	Short	Large	Dec. 1	3.00	27.50
X	Chrome Emerald. Golden orange with gold	CI				
XPD	Bronze Supreme. Bronze with pink cast	Short Med.	Intermed.	Dec. 1	3.00	27.50
	The second of the pink custiming.	med.	Large	Dec. 10	3.00	27.50
	PIN	K				
XD	Betty Rose. Pink, both petals and cushion	Med.	Large	Oct. 25	3.00	27.50
D	Marietta. Soft pink with very full cushion	Med	Large	Oct. 30	3.00	27.50
D	Topknot. Creamy white cushion, pink petals	Med.	Intermed.	Nov. 5	3.00	27.50

Most Gardeners Are Interested In Hardy Mums

Anemone Flowered Varieties

PINK (Continued)						
	M. L. B. L. et					e per
	Name and Description	Height	Size	Matures	100	1000
	Linda Lou. Lavender	Med.	Intermed.	Nov. 8	12.00	100.00
D	Elsa Piel. Orchid pink, cushion tinged with gold	Med.	Large	Nov. 10	4.00	35.00
D	China Rose. Dragon's blood red	Med.	Large	Nov. 10	3.00	27.50
XD	Tuxedo. Pink	Med.	Large	Nov. 10	3.00	27.50
XP	Orchid Beauty. Orchid with golden cushion	Med.	Intermed.	Nov. 15	3.00	27.50
XPD	Freida. Pink; choice	Med.	Large	Nov. 15	3.00	27.50
XSD	Norma. Orchid pink petals with golden pink		3			_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	cushion	Tall	Intermed.	Nov. 18	3.00	27.50
XD	Dark Pink Norma. Dark pink		Intermed.	Nov. 18	3.00	27.50
PD	Long Island Beauty. White with large yellow					
	cushion	Med.	Large	Nov. 20	3.00	27.50
XPD	Beautiful Lady. Bright pink petals with creamy		J			
	white cushion	Short	Large	Nov. 25	3.00	27.50
XD	Dark Pink Supreme. Lavender. Sport from Pink					
	Supreme	Med.	Large	Dec. 10	3,00	27.50
	•		3			
	RE	D				
_		U				
D	Stoplight. Terra cotta petals with low yellow					
	cushion	Med.	Intermed.	Nov. 5	3.00	27.50
XD	The Titan. Scarlet crimson with bronzy red					
	cushion	Med.		Nov. 10	3.00	27.50
	Captivation. Mahogany red		Large	Nov. 10	3.00	27.50
XPD	*Crimson Glow. Crimson maroon	Med.	Intermed.	Nov. 25	3.00	27.50

Hardy Varieties

- X-Extra good or generally accepted best varieties.
- S—Indicates varieties we find most suitable for shading.
 P—Indicates varieties suitable for Pot Plants.
- *—Indicates Korean varieties.

NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO

YELL	OW			D	ce per
Name and Description	Height	Туре	Matures		1000
Carrie. Yellow	Med.	Decor.	Early		
Yellow Cushion. Light buff yellow	Short	Semi-dble.	Sept.	3.00	27.50
X Barbara Cummings. (Yellow Normandie). Yel-	A AI	Dance	Cant	3.00	27.50
low shading to bronze	Med.	Decor. Decor.	Sept.	3.00	27.50
X Wolverine. Yellow* *Pygmy Gold. Golden yellow	Short	Button	Sept. 5	4.00	35.00
X Lorelei. Yellow	Med.	Decor.	Sept. 10	3.00	27.50
P Early Yellow. Yellow. Sport from Early Bronze		Button	Sept. 15	3.00	27.50
Algonquin. Golden yellow		Decor.	Sept. 20	3.00	27.50
*King Midas. Yellow	Med.	Decor.	Sept. 30	3.00	27.50
*Acacia. Pale lemon yellow	Med.	Semi-dble.	Sept. 30	8.00	75.00
X R. Marion Hatton. Canary yellow	Med.	Decor.	Oct. 1	3.00	27.50
*Mrs. Sam P. Rotan. Deep golden yellow	Med.	Decor. Decor.	Oct. 1	3.00 8.00	27.50 75.00
Gleam O'Gold. Pale lemon yellow	Short	Decor.	Oct. 1	3.00	27.50
*Orion. Canary yellow	Med.	Single	Oct. 5	3.00	27.50
Pale Moon. Pale lemon yellow	Med.	Semi-dble.	Oct. 5	8.00	75.00
P Yellow Gem. Canary yellow		Button	Oct. 5	3.00	27.50
*Ceres. Old gold	Med.	Single	Oct. 10	3.00	27.50
Jack Bannister. Light yellow	Med.	Decor.	Oct. 10	3.00	27.50
XP Judith Anderson. Yellow	Short	Button	Oct. 25	3.00	27.50
Yellow Spoon. Lemon yellow	Med.	Spoon	Oct. 30	8.00	75.00

Hardy Varieties (Continued)

WHITE

Price per

Name and Description	Height	Туре	Matures	100	1000
White Gull. White	Short	Button	Aug. 20	3.00	27.50
*Innocence. White	-	Single	Sept.	3.00	27.50
X Jean Cummings. White	Med.	Decor.	Sept.	3.00	27.50
White Cushion. (Queen Cushion)	Short	Semi-dble.	Sept.	3.00	27.50
X Normandie. White		Decor.	Sept.	3.00 3.00	27.50
September Queen. White	Short	Decor. Decor.	Sept. Sept.	3.00	27.50 27.50
Tasiva. White	Short	Decor.	Sept. 15	3.00	27.50
Winnetka. White	-	Decor.	Sept. 20	3.00	27.50
*Niobe. White with light yellow disc		Semi-dble.	Oct. 5	3.00	27.50
Margot. White	Short	Button	Oct. 8	3.00	27.50
Ruth Hatton. Ivory white		Decor.	Oct. 10	3.00	27.50
Malinta. Cream white		Button	Oct. 10 Oct. 30	5.00 8.00	40.00 75.00
White Spoon. White	/vied.	Spoon	OCI. 50	8.00	75.00
BRON	NZE				
*Geronimo. Buff orange	Med.	Decor.	Aug. 25	3.00	27.50
Ann Miller. Orange red	Med.	Decor.	Aug. 25	3.00	27.50
Bronze Cushion. (King Cushion). Buff bronze	Short	Semi-dble.	Sept.	3.00	27.50
X Aladdin. Bronze	Short	Decor.	Sept.	3.00	27.50
XP Early Bronze. Bronze. Emmet. Buff bronze suffused with pink	Short	Button Single	Sept. Sept. 15	3.00 3.00	27.50 27.50
Elena. Reddish bronze		Decor.	Sept. 20	3.00	27.50
	Med.	Single	Sept. 25	3.00	27.50
Sunkist. Orange bronze	Short	Decor.	Sept. 25	3.00	27.50
*Mercury. Blend of old rose and salmon		Single	Sept. 30	3.00	27.50
	Short	Decor.	Sept. 30	3.00	27.50
*Autumn Lights. Coppery bronze	Short	Semi-dble.	Sept. 30	8.00	75.00 27.50
*Orange Wonder. Deep coppery orange	Med.	Decor.	Oct. 1 Oct. 1	3.00 3.00	27.50
Amoskeag. Buff bronze	Short	Semi-dble.	Oct. I	3.00	27.50
	Med.	Decor.	Oct. 1	3.00	27.50
Little Bob. Dark reddish bronze	Med.	Button	Oct. 1	3.00	27.50
	Med.	Single	Oct. 5	3.00	27.50
*Vulcan. Bronze crimson	Med.	Single	Oct. 5	3.00	27.50
	Med.	Decor.	Oct. 5	3.00	27.50
Marisa. Orange bronze* *Mandarin. Coral salmon	Short Med.	Single Decor.	Oct. 10 Oct. 10	3.00 4.00	27.50 35.00
*Goblin. Golden bronze	Med.	Decor.	Oct. 10	8.00	75.00
	Med.	Single	Oct. 12	3.00	27.50
*Saturn. Bronze	Med.	Single	Oct. 12	3.00	27.50
	Med.	Decor.	Oct. 15	3.00	27.50
X Granny Scovill. Warm coral bronze	Short	Decor.	Oct. 15	3.00	27.50
X Indian Summer. Bronze	Med.	Decor.	Oct. 25	3.00	27.50
PIN	K				
Clara Curtis. Salmon pink	Short	Single	Aug. 28	8.00	75.00
XP Amelia. (Pink Cushion). Bright pink	Short	Semi-dble.	Sept.		27.50
	Short	Decor.	Sept.	3.00	27.50
Provence. Soft pink blended with yellow	Med.	Decor.	Sept.	3.00	27.50
Roberta Copeland. Rose pink	Short	Semi-dble.	Sept. 15	8.00	75.00
Panola. Deep lavender	Short	Decor.	Sept. 15	3.00	27.50
drama is a same a	Short	Decor.	Sept. 15 Sept. 25	3.00 3.00	27.50 27.50
*Pink Lustre. Orchid pink	Med.	Single	Sept. 25	3.00	27.50
Muskogee. Deep lavender	Short	Semi-dble.	Sept. 27	3.00	27.50
	Short	Single	Sept. 27	3.00	27.50
	Med.	Decor.	Oct. 1	3.00	27.50
** ! D !	Short	Decor.	Oct. 1	3.00	27.50
	Med.	Single	Oct. 1	3.00	27.50
"Get Your Orde	ers In	Farly"			

Hardy Varieties (Continued)

PIN	IK			Pric	e per
X Jean Treadway. Pink with dark center Passumpsic. Deep lavender	Height Med. Short Short Med.	Type Decor. Decor. Decor. Decor.	Matures Oct. 1 Oct. 1 Oct. 1 Oct. 5	100 3.00 3.00 3.00 8.00	1000 27.50 27.50 27.50 75.00
rose Lilyan. Pale rose pink	Med. Med. Med. Med. Med. Short Short Med. Short Med.	Semi-dble. Decor. Decor. Single Semi-dble. Decor. Decor. Single Single Single Single Decor. Single Decor. Single Decor. Single Decor. Single Decor. Single	Oct. 5 Oct. 5 Oct. 8 Oct. 10 Oct. 10 Oct. 12 Oct. 15 Oct. 15 Oct. 15 Oct. 15 Oct. 25 Oct. 25 Oct. 30	8.00 3.00 8.00 3.00 3.00 3.00 3.00 3.00	75.00 27.50 75.00 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50
Red Cushion. Red. Deanna. Bronze red. Flashlight. Crimson Edgar A. Guest. Bronze red. *Nancy Copeland. Red. Gypsy Girl. Chestnut crimson. X Ruth Cummings. Reddish bronze. *Caliph. Deep red. Vivid. Rosy crimson. Crimson Splendor. Light red. Brilliancy. Crimson orange. Crimson Glory. Deep crimson. Sandra. Deep crimson. *Saladin. Oriental red. Dazzler. Cardinal red. XX Cavalier. Rich vermillion red. Red Flare. Bright red. *Mars. Wine red. Red Hussar. Scarlet crimson. Red Spoon. *—Indicates Korean varieties.	Short Short Short Short Med. Short Med. Short Med. Short Med. Short Med. Short Med. Short Med. Short Med. Short Med. Med. Med. Med. Med. Med. Med. Med.	Semi-dble. Decor. Decor. Decor. Single Single Decor. Decor. Decor. Single Syngle Single Syngle Syngle Syngle Syngle Syngle Syngle	Sept. Sept. 10 Sept. 20 Sept. 25 Sept. 25 Sept. 25 Early Oct. Cot. 1 Oct. 1 Oct. 1 Oct. 1 Oct. 5 Oct. 5 Oct. 10 Oct. 10 Oct. 15 Oct. 15 Oct. 15 Oct. 30		27.50 27.50 40.00 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50

Japanese Mountain or Cascade Varieties

X—Extra good or generally accepted best varieties.

P-Indicates varieties suitable for Pot Plants.

NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO

				Pri	ce per
	Name and Description	Height	Matures	100	1000
ΧP	Anna. Pure white single	Short	Oct. 30	\$6.00	\$50.00
ΧP	Jane Harte, Yellow single	Short	Oct. 30	6.00	50.00
	Brown Button. Bronze	Med.	Nov. 10	6.00	50.00
	Agappina. Mahogany with tinge of yellow on the tips of				
	the cushion florets	Med.	Nov. 10	6.00	50.00

"Check Discounts On Page 2 For Early And Quantity ORDERS"

Pot Plant Varieties

PLEASE NOTE SYMBOLS USED FOR THIS CLASS

The varieties listed below include those of all types which have been found most suitable for pot culture. Types are indicated by Single, Anemone, Decorative, Pompon, and Incurved. Size of flower is indicated by S—Small; Int.—Intermediate; L—Large; and L.F.—Large Flower commercial.

X-Extra good or generally accepted best varieties.

S-Indicates varieties we find most suitable for shading.

NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO

YELLOW

	Vaniatu	Туре	Spray or Disbud	Blooming Date	Pric 100	e per 1000	
	Variety Sport from Forty	Туре	Dispud	Date	100	1000	
	Bronze	S. Pomp.	Spray	Sept. 15	3.00	27.50	
	Pomponette. Primrose yellow	Int. Pomp.	Spray	Sept. 20	8.00	75.00	
	Gold Lode, Golden yellow	L.F. Dec.	Disbud	Oct. 1	3.00	27.50	
S	Golden Spray. Yellow	Int. Pomp.	Spray	Oct. 15	3.00	27.50	
	Cincinnati. Golden yellow	L. Pomp.	Disbud	Oct. 20	8.00	75.00	
XS	Rodell, Imp. Yellow, sport from Rodell;			30 = 0			
	excellent	Int. Pomp.	Spray	Oct. 20	3.00	27.50	
S	Golden Wave. Yellow	L.F. Incurv.		Oct. 20	3.00	27.50	
X	Judith Anderson. Yellow	S. Pomp.	Spray	Oct. 25	3.00	27.50	
	Yellow Caprice. Yellow	Int. Dec.	Dis. or Spr.	Oct. 25	3.00	27.50	
	Smith's Superlative. Golden yellow	L.F. Dec.	Disbud	Oct. 25	3.00	27.50	
XS	Nuggets. Best early yellow	S. Pomp.	Spray	Oct. 25	3.00	27.50	
	Yellow Izola. Buff yellow	S. Anem.	Disbud	Nov. 1	3.00	27.50	
	Ohio State. Yellow	Int. Anem.	Disbud	Nov. 1	3.00	27.50	
XS	Golden Glory. Golden yellow	L.F. Incurv.		Nov. 1	3.00	27.50	
	Baby. Yellow	S. Pomp.	Spray	Nov. 10	3.00	27.50	
	Lila Lilly. Lemon yellow	Int. Anem.	Disbud	Nov. 10	8.00	75.00	
	Yellow Beauty. Golden yellow	L. Pomp.	Disbud	Nov. 10	4.00	35.00	
X	Lois. Golden yellow	S. Pomp.	Spray	Nov. 15	3.00	27.50	
X	Sunray. Yellow	S. Anem.	Spray	Nov. 15	3.00	27.50	
	Faith Engle. Yellow with golden yellow	C A	C	Nav. 15	4.00	25.00	
VC	Yellow Fellow. Yellow.	S. Anem.	Spray	Nov. 15	4.00	35.00	
V		Int. Dec.	Dis. or Spr.	Nov. 18 Nov. 20	3.00 3.00	27.50 27.50	
Y	Bright Light. Bright yellow	L.F. Incurv. L. Dec.	Disbud Disbud	Nov. 20	3.00	27.50	
Ŷ	Yellow Rolinda. Deep golden yellow, sport	L. Dec.	Disbud	1404. 20	3.00	21.50	
^	from Rolinda	Int. Anem.	Dis. or Spr.	Nov. 20	3.00	27.50	
X	Sun Gold. Yellow.	L.F. Dec.	Disbud	Nov. 25	3.00	27.50	
X	W. H. Lincoln. Yellow	L. Pomp.	Disbud	Nov. 25	3.00	27.50	
	Sunshine. Yellow	Int. Anem.	Disbud	Nov. 25	3.00	27.50	
			- 102 - 0				
	WHITE						
XS	White Jewell. White suffused with pink	S. Pomp.	Spray	Oct. 10	3.00	27.50	
	Irene. White	S. Pomp.	Spray	Oct. 15	3.00	27.50	
	Christina. White, sport from Rose Chochard	L.F. Incurv.		Oct. 20	3.00	27.50	
X	Graceland. White with yellow center	Int. Anem.	Disbud	Oct. 25	3.00	27.50	
	White Caprice. White	Int. Dec.	Dis. or Spr.	Oct. 25	3.00	27.50	
X	Mary Pickford. White	S. Pomp.	Spray	Nov. 1	3.00	27.50	
	White Izola. White. Sport from Izola	S. Anem.	Disbud	Nov. 1	3.00	27.50	
	Richard Mandel. Pure white	L. Pomp.	Disbud	Nov. 10	4.00	35.00	
	ВІ	RONZE					
X	Early Bronze. Orange bronze	S. Pomp.	Spray	Sept.	3.00	27.50	
	Bronze Lode. Light bronze. Sport from						
	Gold Lode	L.F. Dec.	Disbud	Oct. 1	3.00	27.50	
	Tango. Chinese red		Disbud	Oct. 15	7.00	65.00	
X	Bonnibell. Orange buff		Spray	Oct. 15	3.00	27.50	
	Carlina Lee. Dark rich red	Int. Dec.	Disbud	Oct. 20	3.00	27.50	

Get Your Mum Orders In Early

Pot Plant Varieties (Continued)

BRONZE

	V	_		Blooming		e per
	Variety	Туре	Disbud	Date	100	1000
	Thorina. Reddish bronze	Int. Pomp.	Spray	Oct. 20	5.00	40.00
X	Kathleen Thompson. Bronze	Int. Dec.	Disbud	Oct. 25	3.00	27.50
	Ethel. Bronze	S. Pomp.	Spray	Oct. 25	3.00	27.50
	Bronze Prince. Bronze	L. Dec.	Disbud	Nov. 1	3.00	27.50
X	Autumn Glow. Bronze red	Int. Dec.	Dis. or Spr.	Nov. 1	3.00	27.50
X	Floradora. Light rose florets, orange cush.	Int. Anem.	Disbud	Nov. 1	3.00	27.50
X	Glitters. Bright bronze	L.F. Dec.	Disbud	Nov. 1	3.00	27.50
Х	Bronze Buckingham. Bronze	Int. S'gle.	Dis. or Spr.	Nov. 5	3.00	27.50
Х	Melba. Reddish bronze	L. S'gle.	Disbud	Nov. 5	3.00	27.50
	Brutus. Bronze	Int. Dec.	Disbud	Nov. 10	3.00	27.50
	Greystone. Golden orange	L. Pomp.	Disbud	Nov. 10	3.00	27.50
	Gypsy. Pale reddish bronze	S. Anem.	Spray	Nov. 15	4.00	35.00
Х	Rolinda. Orange bronze	Int. Anem.	Dis. or Spr.		3.00	27.50
	Red Rolinda. Red. Sport from Rolinda	Int. Anem.	Dis. or Spr.		3.00	27.50
	Mrs. Beu. Standard bronze	Int. Dec.	Disbud	Nov. 25	3.00	27.50
	Hope Engel. Rich bronze	S. Anem.	Spray	Nov. 25	4.00	35.00
	Red Beu. Reddish bronze		Dis. or Spr.		3.00	27.50
	Red Ded. Reddisii Diolize	IIII. Dec.	Dis. 01 3p1.	1404, 25	3.00	27.50
		PINK				
				0-1-10	2.00	27.50
		S. Pomp.	Spray	Oct. 10	3.00	27.50
S	Justrite. Pink			Oct. 15	3.00	27.50
	Rose Chochard. Pink			Oct. 20	3.00	27.50
Х	Benoit. Deep pink	Int. Pomp.	Disbud	Oct. 20	3.00	27.50
	Persian Rose. Rose pink	Int. Pomp.	Spray	Oct. 20	3.00	27.50
	Pink Beauty. Light pink	L. Pomp.	Disbud	Oct. 20	3.00	27.50
	Butler's Caprice. Deep pink	Int. Dec.	Dis. or Spr.		3.00	27.50
X	Lilac Caprice. Deep lilac	Int. Dec.	Dis. or Spr.		3.00	27.50
X	Purple Caprice. Purple	Int. Dec.	Dis. or Spr.		3.00	27.50
X	Thyra. Dark pink	L. Pomp.	Disbud	Nov. 1	3.00	27.50
	Izola. Amaranth	S. Anem.	Disbud	Nov. 1	3.00	27.50
	Laelia. Rose pink	Int. Anem.	Dís. or Spr.	Nov. 1	3.00	27.50
X	Margo. Pinkish violet outer petals, with					
	high, round yellow cushion	S. Anem.	Dis. or Spr.	Nov. 5	3.00	27.50
X	W. H. Buckingham. Pink	Int. S'gle.	Dis. or Spr.	. Nov. 5	3.00	27.50
	Pygmy. Light pink	Int. Pomp.	Dis. or Spr.	Nov. 10	3.00	27.50
	Queen of Pinks. Pink mandel	L. Pomp.	Disbud	Nov. 10	4.00	35.00
	Ethrelda. Light lavender	Int. Anem.	Disbud	Nov. 12	5.00	40.00
х	Orchid Beauty. Orchid with golden cushion	Int. Anem.	Disbud	Nov. 15	3.00	27.50
	Little Amethyst. Pale lavender	S. Anem.	Spray	Nov. 15	8.00	75.00
	Masterpiece. Tourmaline pink	Int. Pomp.	Dis. or Spr.	Nov. 15	3.00	27.50
	Patty. Pink		Disbud .	Nov. 25	3.00	27.50
	Amaranthea. Purplish crimson	Int. Pomp.	Spray	Dec. 10	5.00	40.00
	Americanica. Furpinsi Crimoon		, ,			
		RED				
	Red Izola. Amaranth red	S. Anem.	Disbud	Nov. 1	3.00	27.50
X	Red Melba. Red	L. S'gle.	Disbud	Nov. 5	3.00	27.50
	Harvard. Crimson	_	Disbud	Nov. 30	3.00	27.50

NOTES ON MUM CULTURE

By Geo. J. Ball

Treatment of this subject might be divided into two main phases, first, producing uniformly good stock, for unless this is done Mums or any other crop will not be profitable: second, studying production costs. Chances are if this isn't done, they won't leave a margin, without which we just can't carry on. This makes the economic factor important.

Many points enter into the production of good stock, but the three fundamental ones are clean, fairly enriched soil, timely planting, and using unchecked stock. Plenty further details, of course, but in analyzing failures these fundamentals most frequently seem responsible. Proper care of stock plants is the first concern of the grower. If stock plants are plentiful and full of runners, the cleanest start is to use the runners for stock, discarding the old plant. Even if grown in Fla. or Calif., Mums insist on at least a brief rest during mid-winter. For this reason the greenhouse grower plants his young stock in a cold house; with the coming of longer days they naturally wake up. If stock is infected with midge it must be sprayed or fumigated regularly and persistently with most any of the commercial materials recommended for aphis. To do this effectively is costly work, but unless the infestation is cleaned up before cuttings are taken, chances are it will pay well to burn every stock plant, at least that is the verdict of growers who keep cost records. The ideal time to take cuttings is a month to six weeks before ready to plant. For several reasons it is best to plant rooted cuttings direct. Not only is the extra labor and space required for the early propagation avoided, but unchecked rooted cuttings will start off and continue to grow freer than the more or less checked early start. The ideal start is to have all rooted cuttings on hand the day you are ready to plant.

For stock to be shaded for early flowering, we get our planting done from May 1 to 10, tho the cold house pictured on front cover was planted April 21, which is better to lengthen stems on rather short stemmed varieties like Major Bowes. For growing naturally, without shading, late May or early June is, in our latitude, early enuf for rooted cutting planting. We fail to see how it is possible to make a profit on July planting. Neither do we generally find it pays to grow planting stock in the field and plant late July-August because of the tendency of such stock to come blind, and the extra labor connected with it. Growth in the shallow soil of a raised bed is better controlled and tends to become harder than in a deep ground bed; but if such beds are well drained and if the lower soil is examined occasionally and not kept too wet, they will produce practically as good commercial Mums as

will a raised bed. While it doesn't make any material difference what type of soil is used for Mums, or most crops, a very heavy or light or sandy should avoided, or corrected thru the use of decayed manure or organic matter, the material that all good soils are largely composed of. But what about this fundamentally correct statement in the light of soilless culture? While this revolutionary method quite up-



One of our cold houses showing cloth used on roof. This material is waterproofed canvas, cost around 16c per sq. yd. and is used for early flowering shade, after which it is left in position to be used for protecting the crop in flower from rain and frost. The sash bars used in this cold house are spaced 2 ft. and are only for supporting the rather heavy cloth. If we were to put up another, we would use pipe frame construction, believing it would pay because of being more rigid.

sets our idea of the value of organic matter, do not overlook its need in ordinary soil culture, for it seems necessary for the purpose of unlocking fertility in soil. Our soilless culture experience with this crop has been uniformly successful. It inclines us to believe that some of the principles of this plan, light soil to begin with, that is more freely aerated, might be used in ordinary culture: water and feed to be applied as with soil. We believe that a reason for the freer growth we get in gravel is due to the air that is drawn in and out three times daily. But getting back to what Mums are generally grown in, don't use old greenhouse soil unless it is sterilized. If not in a position to do this, it will pay to wheel in fresh. While Mums as well as most crops seem to flourish in soil with

the pH at around neutral, investigators generally recommend that it be slightly on the acid side for this crop. As soon after planting as we can get to it, we apply a top dressing of Michigan Peat. This assures the soil on the acid side. Do not use lime unless too far on the acid side. Spacing is important and depends some on varieties, but largely on whether two or more small flowers or one large one is most profitable.

wholesale market demand for standard Mums is quite generally for fairly large uniform flowers. Up to last season our standard practice was one flower to a plant, spaced generally 7x8 in. The past season we spaced part of all varieties 7x11 in., with two to a plant: with most varieties a glance at both spacings would show but little difference in flower size, but on cutting them out, we, of course, got quite a few small ones, but one of the two on nearly every plant was large. This two to a plant plan would seem ideal for a retail grower. On the other hand some such growers find they get more returns from as much as 4-5 small flowers than from 1-2 large ones. In England nearly all are grown 8-10 or more to a plant. For the Paris market the larger they are the better; so the answer to this question depends on your demand. Chances are that our average retail grower will want both large and small.



"October Pink" the new single that doesn't lose its color when shaded. Heavy producer, clear rose pink. That's John Jacobs, West Chicago, Illinois, the grower on the right.

The center bed in our front cover picture represents Apricot Queen, two to a plant, quite uniformly good market size. To the right is Betsy Ross, same spacing with a larger percentage of small ones. There is an attractive and a limited demand for the great big ones and it might be profitable to use some of the exhibition kind like the Turners or Pocketts for this. A very nice market grade of most anemones are produced with about 3 flowers to a plant, spacing 8x8 in. Pompons vary in vigor. The New York type of growth is restricted and unprofitable unless spaced 6x6 for rooted cuttings, topping at 6-7 in. and carrying up but two stems. We are using this close spacing for all Pompons, especially if used for shading. When the number of growths is limited to 2-3, the stems draw out longer because of all growth being concentrated in them. In growing Pompons for cutting, it is a real mistake to top several times and carry all growths, because some will be blind and weak. This close spacing calls for more plants but more uniform results and longer stems makes it profitable.

SUPPORTS

The most efficient way to support pompons is the wire and string method used by Carnation growers. The standards or large ones are sometimes tied to wire stakes; sometimes to three or four lines of horizontal wires. The plan more generally used is to tie the end of a string about the base of each stem, the other end to an overhead wire. As the growth lengthens it is merely wrapped about the string. The overhead wire for this plan must be quite tight and frequently supported or the pull of the strings will sag it. The Chrysanthemum being very much a cool temperature plant, it follows that mid-summer temperatures of 90-100 degrees are not going to find them very happy. Under these conditions growth comes to more or less of a stand still: it follows that the roots feel the heat as well and that they will call for less water, or if watered freely as you can during spring and fall, weak growth or yellow leaves and decaying of roots will follow. We do not use any top dressing or feed either, during such conditions. If planted in fairly enriched soil to start with, they should stand a top dressing of some balanced fertilizer in June and again late in

August or September. Use 2-4 pounds to 100 square feet according to vigor of growth. We use a 5-15-5 mixture, varying it according to what an analysis of the soil indicates is lacking, or in over supply.

Old greenhouse soil that is so generally used for this crop, is frequently overloaded with fertility from what has been applied for previous crops. With peas this soil condition is frequently responsible for sickening of roots and we believe this sometimes accounts for weak spots in Mum beds. We know that a heavy leaching with hot water will correct this condition. Steam sterilizing will also do it especially if followed with a thoro saturating of cold or hot water. The wilt or yellowing disease known as Verticellium will carry over in soil: also in young stock propagated from affected plants. It is controlled by steam sterilizing soil and carefully avoiding affected plants in propagating. Affected plants should be burned. Also, keep this in mind: practically all forms of rot or fungus



One of our cold houses of Silver Sheen, photoed Sept. 17th; shade started July 10th. Note Aster Cloth on sides to bar insects. The variety Albatross, planted and shaded with Silver Sheen, will immediately follow it in flowering.

diseases are encouraged and spread by excessive atmospheric moisture. Overhead spraying or wetting down refreshes and promotes growth: also keeps red spider in check. This should be done once or twice daily during July and August, but, if this is done after 3 or 4 o'clock in the afternoon it will leave the plants too wet, overnight.

TAKING BUDS

Dates for selecting them for all large or standard varieties will be found in connection with their listing in this catalog. It is difficult to be accurate with this

information because of varying seasons, climates and planting dates, all of which have more or less influence on the type of buds produced, so the dates given can only be approximately right.

Large Mums produce two types of buds. Briefly stated "crown" buds appear early, are rather large and are not surrounded by a number of other buds as are the "terminals" that come later and terminate the growth. Generally speaking the early or October flowering varieties come best on crown buds, but such should not be used if they show up quite early—a week or two before the dates given in the list, that is based on experience in the northern or central states. Where the days do not shorten so early as in the south, bud selection or development will be deferred some.

SHADING FOR EARLY FLOWERING

Lack of space will not permit much detail on this valuable subject: it will be found more fully treated in the last or 5th edition of our Ball Red Book, that will go to press soon as this catalog gets in your hands. Early flowering thru this simple process is based on the "short day" nature of Mums by which is meant setting of buds is induced by the shortening daylight hours. If daylight hours did not shorten, buds would not set at all on any class of Mums.

This is proven by using electric lights to defer bud setting and flowering of special varieties wanted later. We will touch on this subject later. All classes of Mums



Our cloth house planting figured out profitably last season, but they must be planted by Mid May and sometimes we get hard frosts after that.

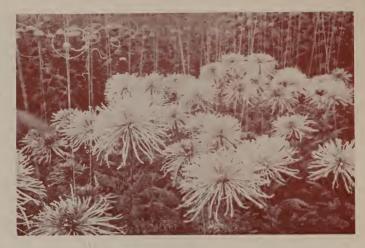
respond alike to the shading treatment. For 3-4 weeks from the time shading is started, buds are set regardless of length of stem: for this reason early planting is necessarily important or short stems will of course, result. With our growing conditions planting of shading stock should be done from May 1 to 15-not later. For varieties not naturally long stemmed such as Apricot Queen pictured on front cover, center bed, later April planting is better. From 50-60 days should be figured from start of shading to cutting of crop. This varies some with varieties: the later varieties require some more time than the early or October kind. Our earliest shading of big standards begins July 10. Successive starts are made a week or 10 days apart to spread the crop. A black sateen cloth furnished by a number of firms is largely used and if cared for, will last 3-4 years, but after two years, some light will filter thru it, requiring a few days or a week longer to set buds. This cloth costs 22c per square yard. We are inclined to favor a grade of kraft paper, made by the Sisalkraft Company, 205 W. Wacker Drive, Chicago. This costs in quantity 10c per square vard, and if not too much exposed will do for two seasons. We find this works out well for the top of beds: it is rolled up or out on a pole in 15 foot sections; but for sides, cloth attached to a wire, and that can be pushed back and forth should be used. For small houses, we cover the roof and sides with one piece. There is considerable saving in material in this over all plan for when beds are shaded individually the sides of each must be in-

cluded. Except when regularly heated greenhouses are used, any shading material used should be left in place to be unrolled as a possible protection against More frost or rain. time is required shading pompons be-cause of some lateral bud setting that must take place before shading stops: in fact we continue the shade until first or terminal buds show color. Shading should be continued on the large flowering kind until the most forward buds are around ½ inch in diameter. Intensive

breeding for size is perhaps responsible for the fact that, generally speaking the larger flowers are, the softer they become. In Mums we know that exhibition kinds like the Turners would be useless to flower in September because they lack enuf hardness to prevent rotting thru the heat and wet spells of that month. In even the moderate size varieties some are too soft for September, others characteristically hard. The small pompons are the hardest of any and can be exposed to dampness without harm. We had a cloth house planting this fall in full flower when the temperature went down to 22°. Under the shading cloth pulled over them it got down to 32° and, as it usually does, this happened during a few days of rainy weather. But when flowered in the open we find them around 10 days later in flowering than when planted in an ordinarily heated greenhouse with the same shading treatment. Because of the greatly reduced overhead or investment we find this outdoor planting worth while. Next season we will locate this planting so a few 1 in. steam pipes can be run into it. This, with the shading material in place will enable us to plant it around the 20th of April and assure us greater fall protection. Early planting assures longer stems and a first class bunch of pompons must be on at least 3-4 foot stems and if you cut them down too low into the hardwood they wilt.

VARIETIES

As far as growth and bud setting is concerned, all varieties react alike to shading. But due to the temperature of September being higher than that of their normal



This variety, Peggy Ann Hoover, might be of more value as an attraction than any on the list, something different, here it is.

flowering season, some varieties change color considerably. The October flowering rose pink kind, when flowered during warm September weather, fade considerably. October Rose is the generally preferred one. Major Edward Bowes is the deepest colored October variety but rather short stemmed or of compact habit. The bronze November 1 variety Apricot Queen is another example of how some colors change under shade. When this is shaded into flower in the warmth of late September. it is an attractive deep or dark yellow, a fine market color. While colors or shades of shaded stock depends on temperatures in which they are flowered, practically all the clear yellows and whites come true when flowered early. Even such a deep yellow as Friendly Rival loses little of its fine color when flowered early. Another important point, as already mentioned is durability or hardness of flower. In offering the following list of October varieties for early or September flowering. this point is considered. This list is as follows and includes only the most popular kind: Good News, Blazing Gold, Mrs. H. E. Kidder. In yellows we find Citronella, inclined to come weak in growth, especially in ground beds. In white Silver Sheen, Albatross, and Snow White are largely used tho the last named is not as hard as the other two. The popular Betsy Ross we have dropped for we find it weaker and clearly more susceptible to disease and red spider than the others grown along side them. Detroit News stands quite alone among bronze colors tho Hilda Bergen is sometimes used. Popular late varieties for shading are Marketeer, Chas. W. Johnson, Glitters, Apricot Queen,

Gladys Pearson, Indianapolis Pink, Thanksgiving Pink, and Mrs. David F. Roy.

In Pompons, Singles, and Anemones, most all clear colors on the list are safe for early flowering. Among the early pompons for September flowering, we depend largely on the following: Nuggets, Improved Rodell, Adelaide, Sea Gull, Pink Dot, Crystal Jewel, Jessie, and Yellow Dot. Sea Gull is an ivory white but hard. Arcadia is pure white but not hard enuf for September, but perfect to flower in October. Chicago Pearl is fine to flower in October: so is Mary Lennon Hall, that we find identical with Vera Victoria. Among the singles we especially like Absolute, California Gold, Buckingham, Gretchen Piper, Joe Beuerlein, Dark Pink Valencia. and October Pink, an especially free flowering one for shading. Among the Anemones don't miss Beautiful Lady. Blanche, Dark Pink Norma, Frieda, Garza Supreme and any of the Espy colors or varieties. Among the hardies don't fail to try the variety listed as "Early Bronze," also Early Yellow. This is a real light tan pompon, perfectly hardy with us and nice for October flowering without shading. In carrying it over winter it might be safer to cover it with some coarse material. Another variety, pictured on previous page is Peggy Ann Hoover. While this type is difficult to ship, a few of them for their very attractive form should interest any retail grower.

POT PLANTS

The demand for well grown plants in pots is clearly increasing and can be helped along wth well grown COMPACT plants. There is an active demand for such, especially in our large centers. Tall, straggly stuff, on the other hand, is not inviting to buyers and usually a loss to growers. But unsold pot plants can, of course, be cut down. In all potting or repotting, use clean fresh soil, for some of the diseases Mums are susceptible to are carried along in old greenhouse material. Also, soil should, when final repotting is done, which is usually into 5 in., be increasingly enriched. For good 6 in. specimens, cuttings should be ready to pot in April and at this rapidly growing season, strong cuttings can go directly into 3 in. DON'T LET THEM GET HARDENED OR CHECKED BY BECOMING POT BOUND IN SMALL POTS BEFORE SHIFTING. Usually three plants are used together in this final potting and for varieties not so vigorous, four plants are frequently used together. The first topping is usually done when the plants are 4-6 in. tall and again in late June or July. Such varieties as are inclined to draw up, some topping or trimming back should be done late in July. Cuttings potted early in April for 6 in. plants will, by May 1, provide an excellent cutting that will make fine stock for finally putting 3 or 4 in a 5 in. pot. After the plants get into vigorous growth in their flowering pots, they must occasionally be helped along with light top dressings of preferably a balanced fertilizer. We occasionally see nice plants grown in an outdoor frame all summer, but most specialists prefer to keep them in a low, well ventilated, unshaded house where they are protected from storms, hot winds, and insects. But the outdoor frame plan is a profitable one if the frame is sheltered from strong winds. It is particularly convenient if the plants are to be shaded for mid-September flowering. The effect of the full outdoors on pot plants is to harden, invigorate, and keep them compact. For this reason, greenhouse grown plants can well be exposed to the outdoors for a month or 6 weeks of mid-Summer. An important detail in the growing of pot plants is in the hands of the man with the hose. Right after potting, they can be easily turned yellow by excess water, but after they become well rooted and in full growth in a 5 in. pot, they absorb much water and quickly become dry enuf to harden and dry up lower foliage unless closely watched. We have seen an overhead sprinkling system used on outdoor grown stock to good advantage. But there is danger of overwatering with it unless closely watched. The Caprice varieties and the smaller flowered kinds, were formerly largely used for pot plant purposes. Today, while all classes are used, the large flowering ones are principally depended upon; your customers will select plants with largest flowers. The following are especially popular with one of the largest successful pot plant growers in the following order: Friendly Rival, Sun Gold, Ohio State, Glitters, Golden Herald, Hilda Bergen, Thanksgiving Pink, Apricot Queen, White Chief, and Justrite. And with this same grower, the following Pompons and Anemones are used in the order named: Nuggets, Rodell Imp., Red Rover, Beautiful Lady, Kathleen Thompson, Caprice Butler, and Little America. The cooler climate of England and Canada permits flowering an early class that naturally gets in around Sept. 1, averaging about half the size of our big Oct. kind and available in a full line of colors, we believe they should have value for us as pot plants.

TO DELAY FLOWERING

This is done thru prolonging daylight with electric lights as already suggested. For mid-season kind, turn on lights about Aug. 20. For December varieties, start a week later. Do not start later, or finished stock will tend to have long necks and sometimes, malformed flowers. Use 40 Watt bulbs with reflectors. Space lights 5 feet and high enuf to spread the light well over the bed. Turn lights on when darkness is reached and for 3 hours daily. Continue the lighting for three-fourths as many days as it is wished to delay flowering; in other words, if you wish to defer flowering 20 days, keep the lights on them 15 days. It is not considered practical to delay flowering more than 3 or 4 weeks. Take first bud showing after light treatment stops.

SOME ECONOMIC SUGGESTIONS

Growing a good bed or house of Mums is one thing. Making it figure out a profit is something else. As a grower I sometimes wish cost accounting was never thot of, for, what it reveals sometimes takes the interest and pleasure out of growing. But we have to pay our help, coal bills, and our soaring Roosevelt made taxes; and, we must make a profit and we should try and do so without working 12-14 hours daily ourselves. Making a profit in any business calls for a certain amount of business ability that can be cultivated. You can sometimes make more profit by sitting down and carefully figuring out your business than you can by hours of digging.

Among a few points for saving costs we find the planting of rooted cuttings in place of early propagated stock a distinct saving: moreover we get better results. If cuttings are ready to take in January or early February, either top the growth or root and plant the cuttings for producing more cuttings in March-April which is the better time to take them in our latitude for rooted cuttings to plant in May.

We also figure a distinct saving thru growing our Mums in what we call "cold houses." Reason for this is that we don't have so much depreciation to figure on such houses, and this figure is a heavy one in our modern houses. We get better results too because the sides in these structures are open, making them airy and cooler than a regulation house. Also, there is a lot of work in connection with Mum growing that should be done by boys and girls or inexperienced help.

And finally, if you can buy rooted cuttings in quantity at around 2 cents does it pay to produce them?

While this might be a debatable question, the fact is that every season more large growers who keep close records, and whose order runs from 50 to 125,000, claim it does not. The grower whose planting is much more limited and who can't buy quite so close might feel different, but, usually such growers retail and are at the height of their busy and crowded season when propagating should be done. Some such growers feel that it pays them better to buy than it does the large growers. Besides, the direct cost of growing your cuttings, there are indirect advantages to consider such as, having your cuttings delivered to you the day you have figured to plant. Also, when you buy annually, the order should be made up in the fall from notes on varieties as they are seen in flower. Frequently our planting consists largely of kinds that produce cuttings most freely and frequently enuf such are inferior. And what about direct costs? Various figures are given on the cost of producing cuttings. We have noted them all the way from 14 cents to 21/2. We question whether these figures represent all the cost such as, various overhead charges and losses thru cuttings rotting in spring. To produce first class cuttings, a well exposed light bench for stock plants is necessary. If you can get the figure on what a flowering crop would be worth from such a bench, the first figure to charge against your Mum cuttings would be had. And what about the cost in time and material used in fighting midge? Very few growers are free of this costly pest. An increasing number of retail grower crops are being more profitably produced by specialists and for some substantial reasons Mum cuttings are rapidly taking their place among them. Our cuttings are produced in very large quantities and with scientific cleanliness and efficiency. It might be to your advantage to let us hear from you about your supply. In conclusion the writer well recalls a remark made just 46 years ago to the effect that Mums had about reached as high a state of perfection as it was possible to achieve. But what improvements since those days! and this betterment will continue for Mums are very much a staple crop and there is hardly a variety that we can't find some fault with. But increasing attention must be paid to the economic factors involved in their cultivation.

CARNATIONS

For several years our friends in various sections have entrusted us with orders for Carnation cuttings. Because of our position as growers of this crop, it gives us pleasure to extend our service to this line. We have enjoyed carnation experience in the past, are much interested in the improvements of the present, and we look forward to its prosperous future; particularly to improved methods of production.

Of first interest to every grower are the better or improved varieties, or such as respond best to his conditions or demands. Over a period of time varieties definitely do run down because of constant cutting propagation. To maintain vigor as well as to improve them it is necessary to grow new ones thru seed. And if you are going to meet today's competition or the close margins that any business faces, a close watch must be kept for the bettered varieties. Improvement is going on too fast to admit of any doubt of that. Also, if your present stock is at all run down, or substantial losses suffered thru stem rot, the chances are that an investment in fresh stock and better varieties will be a profitable one. This is especially so when it is considered that the fresh cuttings will cost little more, maybe not any more than your own.

The production of first class cuttings involves cleanliness, selection of cuttings and careful handling thruout, and this costs. But quality is always well invested in. This is especially true of what you plant in expensive greenhouse space.

We not only keep closely informed on the merits of varieties among other growers, but grow all the leaders ourselves. This experience is at your service. Should you wish information on bettering any particular variety or color you are interested in, we will be very glad to hear from you.

CARE OF YOUNG STOCK IS OF FIRST IMPORTANCE



The young plant left is pinched off where indicated about one month after being transplanted from the sand.

About a month after the first pinching, a number of side shoots develop. As these shoots become large enough, they too are pinched until the grower believes his plant to be of the proper size. It is then allowed to flower.

CARNATIONS FOR 1941

NEW AND RECENT VARIETIES DECEMBER AND LATER DELIVERIES

The descriptions of the new and recent introductions of Carnations are those of the originators. We believe they are honest in their claims and that these varieties have proved of exceptional merit in the section where they have been grown.

It is, however, a well-known fact that many new Carnations do much better in some sections of the country than they do in others. We have in mind the variety Senator. This was a New England introduction of some years back. It proved to be a wonderful white Carnation in the Mid-West, but never had the same popularity in the East.

Study the list below. We feel that any Carnations, whose descriptions appeal to you, are worthy of a trial. Some of them seem to have exceptional merit.



Pollyanna. See next page for description.

No Orders For Less Than 25 Of A Kind Can Be Accepted

NEW AND RECENT VARIETIES

POLLYANNA

For some time there has been a persistent demand for a variety in the salmon flesh color which will compare favorably in quality with the leading commercials and vield sufficiently to be profitable to grow. In our new variety "Pollyanna" we believe that we have it. Being a seedling from Light Pink Abundance crossed with a seedling variety insures its productiveness, the growth being somewhat sturd er and slightly shorter in stem. The bloom is good sized and symmetrical and keeps exceptionally well. The calyx does not split. The color is a good Laddie shade of salmon flesh which holds its freshness late into summer. We recommend Pollyanna

to the discriminating grower who strives for quality along with productiveness. It makes fine plants in the field and transplants readily.

"Pollyanna" will be sold under Patent (pending) with the usual propagating privilege granted to purchasers.

\$15.00 per 100 \$125.00 per 1000

CHARM

Laddie Seedling (Rasmussen Patented) An outstanding carnation, slightly darker than Laddie, almost as large and produces almost twice as many blooms. Exceptionally good keeper. \$20.00 per 100 \$150.00 per 1000

SETH PARKER

The new crimson carnation. Looks like a winner not as dark as Woburn. (Patented) \$20.00 per 100 \$150.00 per 1000

JOYCE

A lovely new deep crimson or maroon seedling originated by Carl Engelmann of England. The variety has been grown in the country for several years, and is now ready to take its place as a leader in this color class. We believe that it will prove superior to all crimsons now available. The flowers are large and beautifully formed. They are fine keepers. The stem is long. There is very little splitting. The variety is a good producer. It is not restricted. \$10.00 per 100 \$90.00 per 1000

DIRIGO

A fine deep pink seedling of medium size introduced last year. It is the Ward or My Love shade. Plants are large and bushy, stems are excellent, production is good, and flowers keep well. There is very little splitting.

\$8.50 per 100

\$75.00 per 1000



Sea Shell. See next page for description.

New and Recent Varieties (Continued)

DARK PINK MAYTIME

This is a deep pink sport of Maytime and has the same characteristics as the parent plant. The flower has the same form and substance, but is a little larger than that of Maytime. Production is higher than is that of the average variety. Plants grow tall and erect, allowing close planting. It is a very rapid growing variety. The keeping quality of the flowers is outstanding. The first flowers are of medium pink, similar to Pink Treasure, but they darken rapidly, and within two or three weeks they are the color of Boston Ward, and they remain that color.

\$10.00 per 100

\$90.00 per 1000

WHITE MAYTIME

This is a pure white sport of Maytime, exactly like the parent variety in every respect except color. The Maytime blossom is a beautifully formed flower, and in this rich, pure white it is especially appealing. It is a productive and profitable commercial white.

\$10.00 per 100

\$90.00 per 1000

WHITE PETER FISHER

A pure white sport of the popular favorite, Peter Fisher. Both plants and flowers are like those of the parent plant. The bloom resembles an improved flower of the variety Ivory, but of course the stem and foliage is much heavier. It is a clean and vigorous variety, easy to grow and entirely satisfactory.

\$8.50 per 100

\$75.00 per 1000

HERMOSA

A large and beautifully formed light pink seedling introduced last year. The color is richer and slightly deeper than that of Virginia. The plants are vigorous and free, stems are long and the calyx is firm. Production is good, and the flowers keep perfectly. This is a fine variety for those who have difficulty with Virginia.

\$8.50 per 100

\$75.00 per 1000

SEA SHELL

A large, well-formed, full-petalled seedling having a lovely and delicate shell pink color. Plants of this variety are especially fine, being large and bushy, vigorous and absolutely clean. Stems are long and stiff, but not brittle. The calvx does not split at any time. Production is good, and the flowers keep and ship well. It is an easy variety to propagate and grow, and it is the only new variety with which we are familiar that has been introduced in this light pink color class in recent years. The color is lighter and softer than that of Virginia or Maytime. The parentage is two unnamed seedlings. The variety is not restricted.

\$15.00 per 100

\$125.00 per 1000

PATENTED CARNATIONS

When a grower develops a new Carnation by hybridization or discovers a sport that he believes is a new and distinct type, he may apply for a patent to the U. S. Bureau of Patents. If this Patent is granted, he has the right to sell this Carnation under any restriction he cares to make.

Most introducers of Patented Carnations sell them by having the purchasers sign an agreement similar to the following:

"We agree to propagate only in such quantity as we will need for our own planting. We will neither sell, trade nor give away any plants or materials which might be used for propagating, and we will make every reasonable effort to prevent such material from leaving our premises. We further agree to destroy all plants produced in excess of our own needs for planting."

When this agreement is signed, the owner of the patent grants the purchaser the right to propagate without limit for his own use.

The Well Known Standard List

WHITE:	Per 100	Per 1000	Johnson Crimson. Good color, big producer. Flowers small
White Maytime. See "New and Recent" page for description\$	10.00	\$90.00	Wivelsfield Crimson. An English introduction. Some like it
Snow White. Introduced last season, may be the large flower we want	9.00	80.00	Joyce. This seems to be well liked. Not as dark as Woburn
Gardenia. A very large white	8.00	75.00	RED:
Olivette. This seems to be the bread and butter variety	0.00	10.00	King Cardinal, (Pat.). The outstanding red 12.00 100.00
for which we are looking	8.00	75.00	Barbara Farr. Light red sport of Spectrum Supreme 7.00 60.00
Joan Marie, (Pat.). Plenty of this still grown	7.00	60.00	Spectrum Supreme. Still grown in quantity 6.00 50.00
Puritan. One of the newer whites that has made good.	5.00	45.00	Rigoletto. A Dept. of Agri-
Patrician. Still popular	5.00	45.00	culture Introduction 5.00 45.00 DEEP PINK:
Senator. Many Midwest growers like it	6.00	50.00	John Briry. A few plants
White Peter Fisher. New last year, should sell well,			were sold last season. It looks very promising 20.00 150.00
grows the same as its parent	8.50	75.00	Clark's Beauty. A newer variety. Does well in some localities 8.50 75.00
YELLOW:			Dirigo. A newer one, has
Maine Sunshine. Has been grown for years	7.00	60.00	shown promise 8.50 75.00
Moonbeam. Yellow	12.00	100.00	Dark Pink Virginia. Growers seem to think it is almost like Virginia Rose 8.50 75.00
Golden Wonder, good. Has faint lines of pink at times	6.00	50.00	Virginia Rose. Rose sport of Virginia
Yellow Gold, (Pat.). Clear yellow	12.00	100.00	Paragon. Did not seem to do as well as it was hoped for 6.00 50.00
PURPLE:			Peter Fisher. A fine bread
Royal Purple, (Pat.). Some grown	12.00	100.00	and butter variety. Grown by many
Potentate. Some grown	6.00	50.00	Carlotta. A Dept. of Agriculture introduction 5.00 45.00
CRIMSON:			New Deal Ward. The best
Seth Parker, (Pat.). Looks like a winner. Not quite as deep as Woburn	20.00	150.00	liked of the ward sports 6.00 50.00 Eddie G. Did not have a large sale. It may be O. K. 8.00 75.00
Woburn. The old standby in this class	7.00	60.00	Pink Abundance. An old stand by 5.00 45.00

Red And Crimson Shades Are Gaining Popularity Every Season

Standard List (Continued)

Otalida List	(Continued)
Pink Treasure, (Pat.). Large medium pink 20.00 150.00	Mrs. C. B. Johnson. Light salmon pink 6.00 50.00
Vivian. Popular in some parts 5.00 45.00	Berkshire Hills. Sport of Patrician 6.00 50.00
My Love. Still liked by many growers 6.00 50.00	Ruth Hengstenberg. Flesh pink 6.00 50.00
Del Ray. The favorite in some sections 6.00 50.00	VARIEGATED:
Boston Ward. Still grown. 6.00 50.00	Coronet. Yellow variegated 15.00 125.00
York Beauty, (Pat.). Big, showy flower 10.00 80.00	Lochinvar. Garnet with or- chid edge. Similar to Pel-
Breiter's Pink. A producer and money-maker 8.50 75.00	argonium
Rosalie. Ward color medium size flower. Good stems.	Pharaoh. Similar in coloring to Chief Kokomo. It is looking good
Free grower. (Pat.) 20.00 150.00 Dark Pink Maytime. See	Pelargonium. White over- laid with crimson maroon 10.00 90.00
"New and Recent" page 10.00 90.00	Chief Kokomo, (Pat.). Orange yellow with red pencilings
LIGHT PINK:	Barbara Brigham. Apricot
Pollyanna, (Pat.). See "New and Recent" page for full	with pink pencilings. Sport of Golden Wonder 6.00 50.00
description	Opal, (Pat.). Purple and White variegated 12.00 100.00
Recent" page for full description	Delicacy Improved. White with many pink pencilings. 8.50 75.00
Charm, (Pat.). Introduced last year. Looks very good. Color slightly darker than	Dimity. White with deep claret pencilings 7.00 60.00
Laddie almost as large and	Suntan. Yellow with pink
produces almost twice as many blooms. Good keeper 20.00 150.00	pencilings
Hermosa. Beautiful new light pink 8.50 75.00	pink pencilings 7.00 60.00
Giant Laddie. A salmon pink sport of Laddie, larger	Lenora. Pink and white variegated 5.00 45.00
flowers, deeper color 10.00 90.00	
Maytime. Lovely shell-pink with long, stiff stems. Very free grower, good keeper,	ALL ORDERS FILLED IN ROTA- TION. FOR EARLY JANUARY DE-
with large flowers 7.00 60.00	LIVERY, SEND IN YOUR ORDERS
Albania. Light pink 12.00 100.00	AT ONCE.
Eleanor. A fine light salmon pink 6.00 50.00	25 R. C. @ 100 RATE
Virginia. Largely grown 6.00 50.00	250 R. C. @ 1000 RATE

The Novelty Variegated Types Are Attractive Corsage Material

A Word About

GRAVEL CULTURE

Vic

Much talked about, much written about, gravel or soilless culture was presented to the trade by Purdue University just 4 years ago. First hailed by the rank and file as a panacea for our soil ills, experience has shown that, rather than simplifying our soil problems, it calls for mastery of a new way of growing in some respects more difficult and exacting than time honored soil culture. A few. probably not over 20 or 25 growers in all. have, thru study or schooling and experience, acquired what



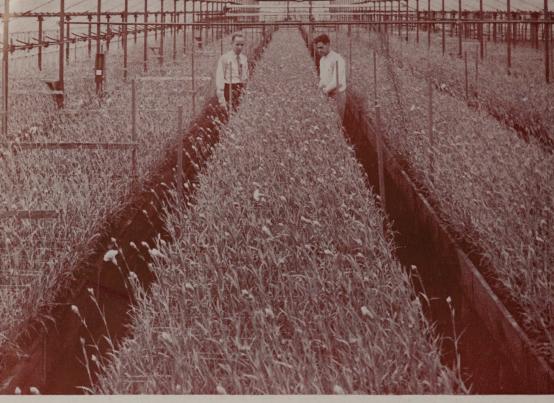
Young Carnation plants just getting "under way" in gravel at West Chicago. Our plantings for this year include around 2000 of them in gravel, also Mums, Snaps, Geraniums, and Stocks in season. Glad to have you look them over.

knowledge is available and with it an inkling of what soilless culture will have to offer once it passes its "growing pains."

About 12,000 sq. ft. of our range of today is devoted to soilless work. On the basis of careful records accumulated over $3\frac{1}{2}$ years, we find the total cost of converting a house already equipped with wooden benches over to gravel to be about 12c per sq. ft.—including waterproofing, motor and pump, clock, tank, fittings, etc. This cost is spread or "depreciated" over about ten years, so will add about 5% to our annual costs. Saving in watering, cultivating, weeding, etc. will decrease costs about 15% leaving a net saving of around 10%,—quite considerable in the face of today's close margins. We should add to this saving an increase in yield and quality of perhaps 15 to 20%—and you see why gravel culture is an encouraged project wherever costs are kept.

Not too fast tho! We are free in stating that the small scale and experimental nature of our gravel crops thus far have kept most of them in the red. A recent installation of around 6,000 sq. ft. all in gravel will definitely determine the practicability of large scale operations.

These are problems we try to do our share in solving. Whatever we may learn is yours for asking. We like to call it "Ball Service."



"Vic" on left, and John Bonhard, in charge.

CARNATIONS AT WEST CHICAGO

This is the cleanest and most successful house we have ever grown. Beautiful color, growth and stems when photoed October 5. The young stock was grown in three inch wooden plant bands. They were planted in the field with the bands. For our conditions this seems a very good compromise on out-right field culture and planting directly inside. Greenhouse benches were filled with fresh soil from the field. Tho it had grown several crops of Soy beans, it tested low in the three main elements, particularly phosphate. For this reason 5-6 lbs. of 45% acid phosphate per 100 square feet of bench space was added before planting. Nothing further was added to this rather lean soil except some quite strawy manure on bottom of the bench. Planting indoors was done July 10-15. With the wooden bands they lifted easily with the original ball of soil intact when the bands were removed in planting. After the first watering they were kept on the dry side for several weeks, after which they have been well watered about once a week; but watering will of course vary with soil and weather. Fulex has been used several times to clean up light out-breaks of spider. Nearly all varieties were topped until August 20. On September 15, a top dressing of 5-15-5 was applied at the rate of 4 lbs. per 100 feet. Nothing further will be fed them until well into January. These suggestions are made for the purpose of telling you how we did it. Conditions with you might be very different. Varieties largely used are; King Cardinal, Peter Fisher, Puritan, Patrician, Woburn, Spectrum Supreme, Virginia, Chief Kokomo, Golden Wonder, My Love, listed in order of value as we find them.

We invite you to come out and look them over.

Better Mums for 1941 Grog Ball
IN C.
WEST CHICAGO
ILLINOIS

Better Carnations for 1941